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ABSTRACT

Included in Chapter 1 of this report are background information on the 1972-73 mathematics assessment; details of the computational formulas used in reporting results; and explanations of the technical documentation, exercise presentation, documentation pages, scoring guides, and data tables for released and unreleased exercises. The remainder of this volume consists of four appendices. In Appendix A, the mathematics objectives measured by the exercises are discussed. Appendix B contains an outline of the fifteen mathematics content areas covered by the assessment. Appendix C is devoted to the released mathematics exercises. Included for each of the released exercises are a copy of that exercise as presented to respondents, a documentation page, a scoring guide for free-response or open-ended exercises, and a complete data table. Appendix D covers the unreleased mathematics exercises and includes a documentation page and a limited data table for each of the exercises. Both appendices C and D are organized according to the fifteen mathematics content areas. (DT)

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MATH TECHNICAL REPORT
EXERCISE VOLUME

U.S. DEPARTMENT OF HEALTH,
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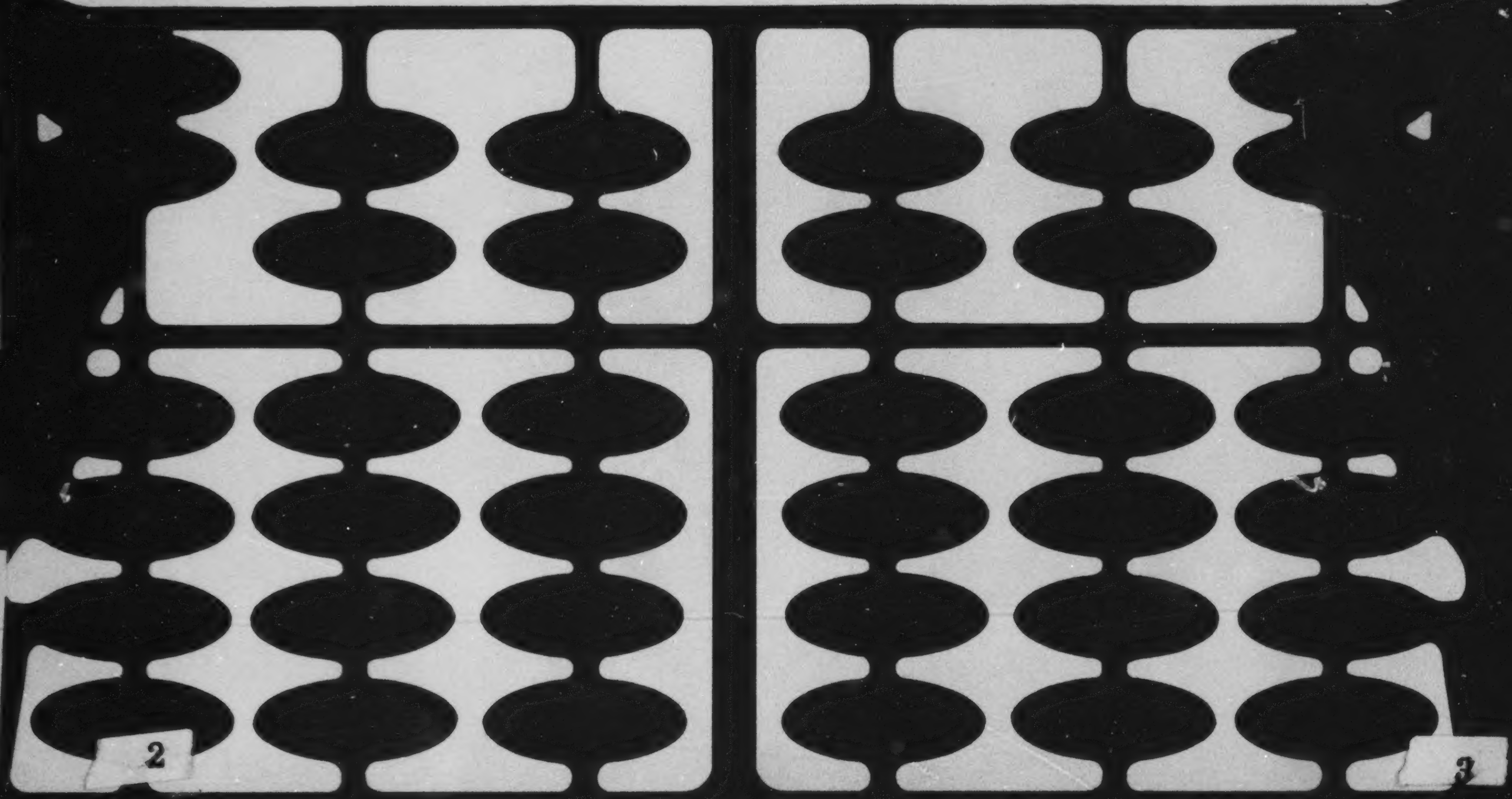

NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS
A Project of the Education Commission of the States

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Warren G. Hill, Executive Director, Education Commission of the States
Roy H. Forbes, Director, National Assessment

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02-L-00	Summary Data, June 1973	1.30

1971-72 Assessment

03/04-GIY	General Information Yearbook — A description of National Assessment's methodology, with special attention given to Music, Social Studies, Science and Mathematics, December 1974	1.20
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03-SS-01	Political Knowledge and Attitudes, December 1973	1.05
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03-SS-21	Social Studies Technical Report: Summary Volume, November 1975	1.90
03-SS-00	The First Social Studies Assessment: An Overview, June 1974	.90

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NATIONAL ASSESSMENT OF EDUCATIONAL PROGRESS

MATHEMATICS TECHNICAL REPORT:

Exercise Volume

Mathematics Report No. 04-MA-20

February 1977

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402

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FOREWORD

When the United States Office of Education was founded in 1867, one charge set before its commissioner was to determine the nation's progress in education. Only recently has that century-old charge been addressed in a systematic way. The work is being done by the National Assessment of Educational Progress (NAEP).

Each year since 1969, National Assessment has gathered census-like information about levels of educational achievement across the country and reported its findings to the nation. During the first five years of its endeavors, NAEP had interviewed and tested more than 400,000 representative young Americans. Baseline data on the achievement levels of young Americans in eight learning areas — science, social studies, music, literature, reading, writing, mathematics and citizenship — have been collected and reported.

Each assessment is the product of several years' work by a great many educators, scholars and lay persons from all over the country. Initially, these people design objectives for each area, proposing general goals that they feel Americans should be achieving in the course of their education. These goals are reviewed by more people and then passed along to test developers, whose task it is to create measurement tools appropriate to the objectives.

When the exercises, prepared by the developers, have passed extensive reviews by subject-matter specialists and measurement experts, they are administered to probability samples of various populations. The people who comprise those samples are chosen in such a way that the results of their assessment can be generalized to a national population. That is, on the basis of the performance of about 2,500 9-year-olds on a given exercise, we can generalize about the probable performance of all 9-year-olds in the nation. Approximately 100,000 persons participate annually.

After assessment data have been collected, scored and analyzed, National Assessment publishes reports to present the results as accurately as possible. Not all exercise results are released for publication. Because National Assessment will administer some of the same exercises again in the future to determine whether the performance level of Americans has improved or declined, it is essential that they be kept secure in order to preserve the integrity of the study. Approximately one-half of the mathematics exercises were retained for use in the second assessment of mathematics and, therefore, are not printed in this report. However, documentation for the content areas and objectives that were measured and the national percentage results are included for the unreleased exercises to give a sense of the total assessment effort.

For exercises that have been released, this volume provides a copy of the exercise, complete documentation about administration, scoring procedures and the national percentage results. Researchers who need detailed information about the exercises and state and local educators who want to use National Assessment exercises in their own assessment programs will find this documentation most useful.

A general summary of the mathematics results can be found in *The First National Assessment of Mathematics: An Overview, Report 04-MA-00.* There are also two reports based on subsets of the mathematics exercises. The first, *Math Fundamentals:*

Selected Results From the First National Assessment of Mathematics, Report 04-MA-01, deals with the computational abilities of young Americans. The second, *Consumer Math: Selected Results From the First National Assessment of Mathematics, Report 04-MA-02*, deals with the ability of young Americans to solve consumer-type problems. National Assessment also publishes a general information yearbook that describes all major aspects of the assessment process. The reader who desires more detailed information about how National Assessment defines reporting groups, designs the sample, prepares and scores the exercises, and analyzes and reports the results should consult the *General Information Yearbook, Report 03/04-GIY*. All of these reports are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

National Assessment has also prepared computer data tapes that contain the original, unanalyzed response data for all of the released mathematics exercises. Information about these tapes can be obtained from National Assessment.

ACKNOWLEDGMENTS

Many people have made substantial contributions to the mathematics assessment, from the beginning of the National Assessment of Educational Progress (NAEP) in 1964 to this report of findings in the area of mathematics. Unfortunately, it is not possible to acknowledge them all here, and an apology is due to those whose names have been omitted.

The original preparation of the objectives and exercises in the area of mathematics was handled by the Educational Testing Service and The Psychological Corporation. These materials were reviewed by dozens of consultants, including mathematicians, mathematics educators and interested lay persons, under the general monitoring of the National Assessment staff. Special mention must be made of three individuals and their contributions to the developmental phases: Emil Berger of the St. Paul (Minn.) Public Schools for his assistance in finalizing the objectives and efforts in developing and field testing exercises; and Dale Foreman of the Council for REAL Education and Todd Rogers of the University of British Columbia (Vancouver), former NAEP staff members, for their efforts in developing the individually administered mathematics exercises.

The administration of the mathematics assessment was conducted by the Research Triangle Institute and the Measurement Research Center (MRC). Scoring and processing were carried out by MRC and by the National Assessment staff. Louise Diana of MRC and Fred Schippert of the Detroit (Mich.) Public Schools provided invaluable assistance in developing and refining the categories used to score the exercises. James Wilson of the University of Georgia (Athens) and Robert Reys of the University of Missouri (Columbia) were extremely helpful in suggesting analysis schemes.

The actual preparation of this report was a collaborative effort of the National Assessment staff. Special thanks must be given to the following people: James Damon, Jack Anderson and William Ankeny for data processing support; Ava Powell for technical proofreading; Marci Reser and Jessica Grant for production; and Barbara Ward, who wrote the other NAEP mathematics assessment reports. Technical analysis for this report was planned and supervised by Wayne Martin.

Special thanks must also go to J. Stanley Ahmann, who directed the National Assessment program throughout the period in which this information was gathered and reported.

Roy H. Forbes
Project Director

CHAPTER 1

THE MATHEMATICS ASSESSMENT

Background Information

In the 1972-73 assessment of mathematics, 9-year-olds, 13-year-olds, 17-year-olds (in and out of school) and young adults ages 26-35 — age levels that correspond to the end of primary, intermediate, secondary and postsecondary education — were asked a variety of questions designed to measure achievement of 5 broad objectives within 15 content areas in mathematics education. The purpose of this report is to document both the performance of young Americans on these questions or exercises and to provide documentation of the exercises themselves.

The probability sample design[1] employed by the National Assessment of Educational Progress (NAEP) provides reliable data at the national level. The sample was not designed to enable comparisons of the data to be made among states, school districts, schools, teachers and individual respondents. It consisted of approximately 2,500 to 2,600 respondents per group-administered package and 2,100 to 2,200 respondents per individually administered package. All told, approximately 25,000 9-year-olds, 30,000 13-year-olds and 33,000 17-year-olds participated in this assessment. Because young adults were allowed to take up to four assessment packages, their total sample size was approximately 4,500. The 9-year-olds, 13-year-olds and 87% of the 17-year-olds were selected through sampling schools; the young adults were selected through household sampling. The 17-year-olds not enrolled in school were identified both through the household sampling and a special supplementary sample designed to pick up high school dropouts and early graduates.

In addition to reporting national results for 9-year-olds, 13-year-olds, 17-year-olds and young adults, National Assessment provides results for various groups of people — specifically, both sexes, two races, four regions of the country, seven sizes-and-types of community and four levels of parental education. The reporting groups are defined as follows.

Sex

Results are presented for males and females.

Race

Results are presented for blacks and whites.

---

[1] An overview of the National Assessment sampling design for assessment Years 03 and 04 (1971-72 and 1972-73) is provided in Chapter 2 of the *General Information Yearbook, Report 03/04-GIY* (Washington, D.C.: Government Printing Office, 1974). For more detailed documentation, see J.R. Chromy et al., *The National Assessment Approach to Sampling* (Denver, Colo.: Education Commission of the States, 1974).

Region

The country has been divided into four regions — Southeast, Northeast, Central and West — in order to examine results for the regions relative to the national level of performance. The states included in each region are identified in Exhibit 1.

EXHIBIT 1. National Assessment Geographic Regions

Northeast:
- Delaware
- Connecticut
- Maine
- New Hampshire
- Rhode Island
- Vermont
- District of Columbia
- Maryland
- Massachusetts
- New Jersey
- Pennsylvania
- New York

Central:
- Iowa
- Kansas
- Nebraska
- North Dakota
- South Dakota
- Minnesota
- Missouri
- Illinois
- Indiana
- Michigan
- Wisconsin
- Ohio

Southeast:
- Arkansas
- Florida
- Alabama
- Georgia
- Mississippi
- North Carolina
- Virginia
- West Virginia
- Kentucky
- Louisiana
- South Carolina
- Tennessee

West:
- Alaska
- Hawaii
- Idaho
- Montana
- Nevada
- Wyoming
- Arizona
- Oregon
- Utah
- Colorado
- New Mexico
- Oklahoma
- California
- Texas
- Washington

Parental Education

The four parental-education categories are defined by the highest reported level of education attained by either of a respondent's parents. These categories include (1) those whose parents have had no high school education (NO HS); (2) those who have at least one parent with some high school education (SOME HS); (3) those who have at least one parent who graduated from high school (GRAD HS); and (4) those who have at least one parent who has had some post-high school education (POST HS) — college, vocational training or adult education courses.

Size and Type of Community

The categories within this variable are defined by the size of the community and by the type of employment of the majority of the people in the community. All population sizes are based on data from the 1970 census. For in-school respondents, the school principal completes an occupational profile of the area the school serves.

EXTREME RURAL. Areas with a population under 10,000 where most of the residents are farmers or farm workers.

LOW METRO. Areas in or around cities with a population greater than 200,000 where a high proportion of the residents are on welfare or are not regularly employed.

HIGH METRO. Areas in or around cities with a population greater than 200,000 where a high proportion of the residents are in professional or managerial positions.

MAIN BIG CITY. Communities within the city limits of a city with a population over 200,000 and not included in the high- or low-socioeconomic urban groups.

URBAN FRINGE. Communities within the metropolitan area of a city with a population greater than 200,000, outside city limits and not in the high- or low-socioeconomic urban groups.

MEDIUM CITY. Cities with populations between 25,000 and 200,000.

SMALL PLACES. Communities with a population of less than 25,000 and not in the rural group.

Computation of the Results

The choice of algorithms for estimating p-values (percentages) and their associated standard-error estimates is heavily dependent on the sample design. Like most large sample surveys, National Assessment uses deeply stratified, multistage probability samples with disproportionate sampling of certain populations. For example, low-income areas are "over-sampled" (sampled with higher probability than other income areas) to assure adequate representation of all income groups. If national estimates were to be computed solely on the basis of the responses from the sample, there would then be "too many" low-income respondents in the sample. To adjust for this, all of the responses from the sample are weighted in inverse proportion to their probability of selection, and the weighted responses are used to compute national (and population) estimates. Similarly, it is necessary to account for the disproportionate sampling and also for the effects of stratification and multistage clustering when estimating the standard errors of the percentages. Thus, it is the weighted response data that is used for the computation of results for each exercise.

The following types of results are provided for each exercise.

1. The "p-value" represents the percentage of persons in each of the populations who would have given a particular response to a specific exercise, had the entire population been tested. For example, the percentage of 9-year-olds who added two numbers correctly is defined as the sum of the weighted number of these responses divided by the sum of the weighted number of all responses to the exercise by the 9-year-olds. Percentages for each reporting group (e.g., 9-year-olds in the Southeast) were computed in a similar manner, using only the weighted responses of persons in that group.

2. The "delta p-value" represents the difference between the performance of a reporting group and the performance of the total age level (the national level of performance). For example, a delta p-value for females is the difference between the percentage of females who gave a particular response to a specific exercise and the corresponding national percentage for all students that age:

   Female percentage - national percentage =
   female delta p-value.

   On a given exercise, if a group's p-value is lower than the national p-value, the difference between the two estimated percentages — the delta p-value — is expressed as a negative number; if a group's p-value for a particular response to an exercise is higher than the national p-value, the difference is a positive number. For example, if the p-value for 9-year-old females is 65 and the national p-value for all 9-year-olds is 70, the female delta p-value would be -5 for that response to the exercise.

3. The standard error represents a measure of sampling variability. The Year 04 NAEP sample design provides no known standard-error estimator that is unbiased, simple and inexpensive to compute. A reasonably good approximation to standard-error estimates of p-values may be obtained by applying the jackknife algorithm to first-stage sampling units within strata, using the method of successive differences and pooling across strata.

Let

$\hat{Y}_{ijhk}$ = sum of weights for respondents in subgroup i (e.g., Northeast, males or low-socioeconomic urban) who chose response category j (e.g., correct foil) in PSU k of stratum h (h = first three digits of PSU number, k = last digit of PSU number).

$\hat{M}_{i.hk}$ = sum of weights for respondents in subgroup i of PSU k of stratum h. Note that

$$\hat{M}_{i.hk} = \sum_{j} Y_{ijhk}.$$

Then

$\hat{Y}_{ij..} = \sum_{h=1}^{H} \sum_{k=1}^{n_h} \hat{Y}_{ijhk}$, the estimated number of respondents in subgroup i who chose response category j,

$\hat{M}_{i...} = \sum_{h=1}^{H} \sum_{k=1}^{n_h} \hat{M}_{i.hk}$, the estimated proportion of respondents in subgroup i,

and

$\hat{P}_{ij} = \dfrac{\hat{Y}_{ij..}}{\hat{M}_{i...}}$, the estimated proportion of respondents in subgroup i who chose response category j.

In the above formulas, H = the number of strata and n_h = the number of PSUs in stratum h. Multiplying p_{ij} by 100 yields percentages, called p-values in NAEP terminology. The jackknifed estimate of the standard error of P_{ij} is

$$\hat{s.e.}_{\hat{P}_{ij}} = \left[1/8 \sum_{h=1}^{H} \sum_{k=1}^{n_h} \left(\frac{\hat{Y}_{ij..} - \hat{Y}_{ijhk} + \hat{Y}_{ijh,k+1}}{\hat{M}_{i...} - \hat{M}_{i.hk} + \hat{M}_{i.h,k+1}} - \frac{\hat{Y}_{ij..} + \hat{Y}_{ijhk} - \hat{Y}_{ijh,k+1}}{\hat{M}_{i...} + \hat{M}_{i.hk} - \hat{M}_{i.h,k+1}} \right)^{2} \right]^{\frac{1}{2}}$$

where, for k - n_h

$$\hat{Y}_{ijh,k+1} \equiv \hat{Y}_{ijh,1}$$

and

$$\hat{M}_{i.h,k+1} \equiv \hat{M}_{i.h,1}.$$

In general, the jackknifed standard errors of NAEP data will be larger than the simple random sampling formula $(pq/n)^{1/2}$, reflecting, largely, the loss of precision due to cluster sampling of schools and students.

The project has adopted the convention that if an obtained delta p-value is at least twice as large as the estimate of its standard error, then the difference is statistically significant. A difference that is at least twice as large as its standard error is indicated in the tables by an asterisk (*); this corresponds approximately to the .05 level of statistical significance. A difference that is equal to or greater than two and one-half times its standard error is indicated in the tables by a pound sign (#); this corresponds approximately to the .01 level of statistical significance.

Explanation of the Technical Documentation

The purpose of this report is to document the performance of young Americans on the mathematics assessment and to provide documentation of the actual questions or exercises that made up the assessment. Each question or exercise was assigned to an objective (or ability) and to a content area.[2] The 5 broad objectives were (1) recall and/or recognize definitions, facts and symbols; (2) perform mathematical manipulations; (3) understand mathematical concepts and processes; (4) solve mathematical problems — social, technical and academic; and (5) use mathematics and mathematical reasoning to analyze problem situations, define problems, formulate hypotheses, make decisions and verify results. For presentation in this volume, the exercises have been organized by content areas. The 15 content areas are:

A. Number and Numeration Concepts
B. Properties of Numbers and Operations
C. Arithmetic Computation
D. Sets
E. Estimation and Measurement
F. Exponents and Logarithms
G. Algebraic Expressions
H. Equations and Inequalities
I. Functions
J. Probability and Statistics
K. Geometry
L. Trigonometry
N. Logic
P. Business and Consumer Mathematics
Q. Methods of Representing Data

In order to measure the change in educational attainments over time, approximately 50% of the exercises used in the first assessment of mathematics will be used in the second assessment (currently scheduled for the 1977-78 school year). The exercises that will be used in the second assessment are kept secure and are presented in this report as "unreleased" exercises. The other half of the exercises that made up the first mathematics assessment are considered to be "released" exercises, available for public use and scrutiny. For released exercises, this report provides a copy of the actual exercise (as presented to respondents), a documentation page, a copy of the scoring guide for free-response or open-ended exercises and a complete data table. For unreleased exercises, this report provides a documentation page and a limited data table.

Exercises

Each released exercise is reproduced exactly as it was administered. For multiple-choice exercises, the oval beside the correct choice has been darkened. For the open-ended (short-answer) exercises, the scoring criteria and categories are also provided.

Example Multiple-Choice Exercise, RA01

What digit is in the tens place in 4,263?

○ 2
○ 3
○ 4
● 6
○ I don't know.

Example Open-Ended Exercise, RC01

Add the following numbers:

$ 3.06
10.00
9.14
5.10

ANSWER ___________

---

[2] Details of the development process are provided in the *Mathematics Objectives Booklet* 1972-73 National Assessment of Mathematics (Denver, Colo.: Education Commission of the States, 1970).

Documentation Pages

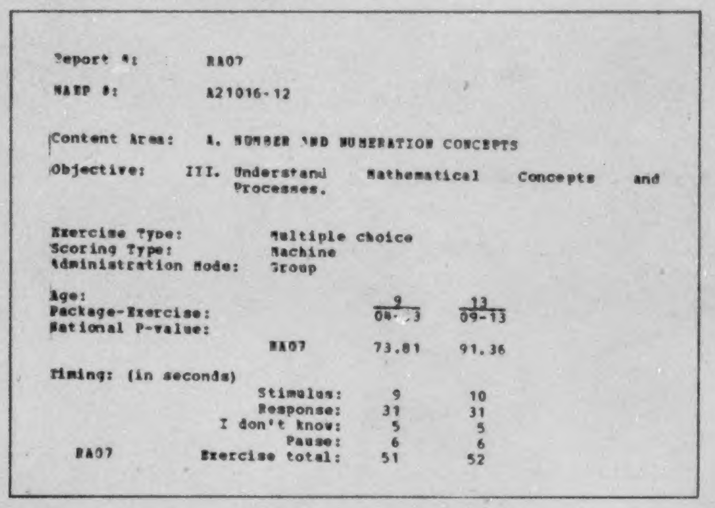
A documentation page is provided for every exercise (released or unreleased) that was part of the mathematics assessment. For the released exercises, the documentation page supplies the information that would be needed to use the exercise in an assessment. For the unreleased exercises, the documentation page provides a better idea of what the unreleased exercises required of respondents. An example exercise and its documentation page, with a detailed explanation of the documentation page, follow.

Example Exercise, RA07

Which one of the following is the sum of three hundreds, eight tens, and four ones?

○ 15
● 384
○ 300,804
○ I don't know.

Example Documentation Page, RA07



```
Report #:        RA07

NAEP #:          A21016-12

Content Area:    A. NUMBER AND NUMERATION CONCEPTS

Objective:     III. Understand    Mathematical    Concepts    and
                    Processes.


Exercise Type:              Multiple choice
Scoring Type:               Machine
Administration Mode:        Group

Age:                                   9        13
Package-Exercise:                    04-13    09-13
National P-value:
                            RA07     73.81    91.36

Timing: (in seconds)
                         Stimulus:     9        10
                         Response:    31        31
                     I don't know:     5         5
                            Pause:     6         6
   RA07            Exercise total:    51        52
```

Explanation of Example Documentation Page

I. EXERCISE IDENTIFICATION SYSTEMS

Report #: RA07

The first letter in the identifier indicates whether the exercise is released (R) or unreleased (U).

RA07

The second letter indicates the content area to which the exercise was assigned. Content Area A is Number and Numeration Concepts.

RA07

The two digits are simply a sequence number.

NAEP #: A21016-12

The NAEP number serves as a cross-reference and is used by the NAEP staff more frequently than the other identifiers. The numbers following the dash indicate the age levels to which the exercise was administered. In this case, the exercise was administered to 9-year-olds (1) and 13-year-olds (2). If the exercise had also been administered to 17-year-olds and young adults, the indicator would include a "3" and "4," respectively.

II. CONTENT AREA AND OBJECTIVE

Content Area:	A.	NUMBER AND NUMERATION CONCEPTS
Objective:	III.	Understand Mathematical Concepts and Processes.

Each exercise was designed to measure one of the objectives within the various content areas. An outline of the mathematics objectives is provided in Appendix A; an outline of the content areas is provided in Appendix B. In addition, the *Mathematics Objectives Booklet* (which provides information concerning the development process as well as greater detail for the objectives) is available from National Assessment.

III. ADMINISTRATION AND SCORING DESCRIPTORS

Exercise Type:	Multiple-Choice

Three major types of exercises were used in the mathematics assessment: multiple-choice, short-answer and apparatus. Within the three major types of exercises, an exercise could be titled multiple part and/or could require the use of a graph, table or drawing.

Scoring Type:	Machine

Multiple-choice exercises were scored directly by an optical scanning machine. The short-answer exercises and most of the apparatus exercises were scored by semiprofessional hand scorers. After being trained, the hand-scorers examined the exercise responses and determined which scoring category each response fit into. They then gridded the appropriate code on the scoring ovals at the bottom of the page. After hand scoring, the exercises were then scored by an optical scanning machine.

Administration Mode:	Group

Many exercises were administered to groups of respondents, ranging in size from 8 to 12 people. These exercise administrations were conducted by using a paced tape recording to present the exercises to the individuals. Exercises designated as "individual" were administered on a one-to-one basis in an interview situation.

IV. PACKAGING INFORMATION AND NATIONAL P-VALUES

Age:	9	13
Package-Exercise:	04-33	09-13
National P-Value (RA07):	73.81	91.36

All four age levels were not asked to respond to all the exercises. In some cases, an exercise was administered to only one age level, for example, to 9-year-olds. Others were administered to two or more adjacent age levels and are called overlap exercises. The "Age" descriptor tells in which ages the exercise was administered. The "Package-Exercise" descriptor shows how the exercises were grouped into booklets or packages for each administration. In-school respondents (9-year-olds, 13-year-olds and 87% of the 17-year-olds) took only one package of exercises. Out-of-school respondents (13% of the 17-year-olds and all of the young adults) were allowed to take up to four packages.

The "national p-value" is the percentage of individuals at that age level who could answer the question correctly, or could answer the question at a level that subject-matter specialists felt indicated achievement of the objective/content area that the exercise was designed to measure. For multiple-choice exercises, the correct response is darkened on the copy of the exercise. For the short-answer exercises, the scoring guide has been included. Generally, scoring categories beginning with a "1" were considered acceptable (10 through 19). Because there may be two levels of acceptability for an exercise, a note on the bottom of the scoring guide explains which scoring categories were considered to represent the higher level of acceptability.

For exercises with more than one part, the national p-value has been indicated for each part.

V. ADMINISTRATION TIMES

Those researchers planning to reassess the National Assessment exercises will need to know the exact administration times.

Timing (in seconds):	Stimulus:	9	10
	Response:	31	31
	I don't know:	5	5
	Pause:	6	6
RA07	Exercise total:	51	52

The tape recordings used in the group administrations were timed in order to arrive at the figures presented in this report. The "Stimulus" time is the time required to read on the tape the entire exercise or exercise part. For multiple-choice exercises, this includes the reading of the alternative responses. The "Response" time is the period of silence allowed on the tape for respondents to compute or choose and record their answers. For multiple-choice exercises, this is followed by the "I don't know" time, which represents the time allowed on tape to read either the phrase "If you do not know the answer, please fill in the oval beside 'I don't know' " (generally five seconds) or simply "I don't know" (generally one to two seconds). The "Pause" time represents the silence on tape following this to allow the respondent to either mark one of the alternate responses or the "I don't know" response. Total times for the parts ("Part total") and the exercise ("Exercise total") are also presented. Since the individually administered exercises were read to the respondent by the administrator, they did not have paced tape recordings and, therefore, do not have timing information. For young adult administrations, tape recordings were used but the tapes were not paced. For the unreleased exercises, only the total exercise time ("Exercise total") is provided.

Scoring Guides

The scoring guide for the example open-ended exercise (RC01) follows. For all of the scoring guides developed for the mathematics assessment, those categories beginning with a "1" (10 through 19 — categories 10 and 11 in the example below) are considered acceptable responses; those categories that begin with a "2" (20 through 29 — categories 20 through 24 in the example below) are considered to be unacceptable responses in terms of the content area and/or objective being measured by the exercise.

For some of the mathematics exercises, there are two levels of acceptable responses. For example, if the exercise was a word problem, the first level of acceptability is whether the respondent can translate it to a mathematical problem, selecting the appropriate mathematical operations to solve the problem. The second level of acceptability is whether the respondent can then compute the correct answer. Although the national results are based only on those respondents who could arrive at the higher, or second, level of acceptability, special categories were established and are presented in the report for those who could reach only the lower, or first, level of acceptability. If an open-ended exercise was scored on the criteria of two levels of acceptability, the category or categories that define the higher level of acceptability will be indicated on the bottom of the scoring guide. In the example scoring guide below, categories 10 and 11 were considered as equally acceptable; both categories were used to compute the national results for the exercise.

Example Scoring Guide, RC01

00 = No response

10 = $27.30

11 = 27.30

20 = 2730; $2730 (any decimal error)

21 = 27.20; $27.20; 17.30; $17.30 (can misplace decimal)

22 = 17.20; $17.20 (can misplace decimal)

23 = 117210; $117210 (can misplace decimal); 11721

24 = Other unacceptable

39 = I don't know

EXERCISE: MA01

What digit is in the tens place in 4,263?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	0.0	0.0	-0.1	-0.1	0.1	0.1	-0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.2	-0.1
STD ERR OF DP		0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0
RESPONSE: 01 AGE: 9	TEXT: 2																			
DELTA-P	6.0	2.2	1.4	-1.9#	-1.5	-0.3	0.3	2.3	-0.7*	8.1	1.3	-1.2	-0.8	1.6	-1.8	0.4	2.4	0.5	-1.6	-2.0
STD ERR OF DP		1.1	0.9	0.7	0.9	0.5	0.5	1.4	0.3	5.9	2.8	0.9	0.8	1.9	1.8	0.8	1.4	1.2	1.2	1.2
STD ERR OF P	0.5	1.3	1.0	0.8	1.0	0.7	0.8	1.4	0.6	6.1	2.8	0.9	0.9	2.0	1.8	1.0	1.4	1.2	1.3	1.3
RESPONSE: 02 AGE: 9	TEXT: 3																			
DELTA-P	4.4	2.6#	-0.2	-1.0	-1.1	0.0	-0.0	6.0#	-1.0#	10.8#	-0.2	-0.2	-1.0	7.7#	1.7	-0.9	0.3	-2.0*	-0.9	-0.7
STD ERR OF DP		1.0	0.6	0.6	0.7	0.5	0.5	1.2	0.3	3.5	2.0	0.8	0.6	1.7	1.5	0.5	1.1	0.9	1.0	1.2
STD ERR OF P	0.4	1.2	0.6	0.7	0.9	0.6	0.6	1.3	0.4	3.6	2.1	0.9	0.8	1.8	1.6	0.6	1.1	0.9	1.1	1.3
RESPONSE: 03 AGE: 9	TEXT: 4																			
DELTA-P	7.7	2.5	-0.1	-0.3	-2.0*	1.1	-1.1	5.7#	-1.4#	-3.8*	0.8	1.0	-1.0	3.1	-0.3	0.3	2.0	-2.7*	-0.6	-1.5
STD ERR OF DP		1.4	1.1	1.1	1.0	0.6	0.7	1.8	0.4	1.6	2.7	1.2	0.9	2.7	2.3	0.9	2.7	1.1	1.0	1.7
STD ERR OF P	0.6	1.7	1.2	1.2	1.0	0.9	0.9	2.0	0.7	1.7	2.8	1.3	0.9	2.8	2.3	1.1	2.9	1.1	0.9	1.7
RESPONSE: 04* AGE: 9	TEXT: 6																			
DELTA-P	75.2	-9.3#	-2.3	4.3	6.2#	0.3	-0.4	-18.6#	4.1#	-11.3	0.5	2.2	6.5#	-16.9#	-1.9	0.2	-5.3	5.9*	1.6	9.4#
STD ERR OF DP		3.5	2.2	2.4	2.4	1.2	1.3	2.9	0.8	7.1	4.7	1.8	1.5	4.0	4.4	1.9	5.4	2.4	3.1	3.0
P-VALUE	75.2	66.0	72.9	79.5	81.4	75.5	74.9	56.6	79.3	63.9	75.7	77.4	81.8	58.3	73.4	75.4	69.9	81.1	76.8	84.6
STD ERR OF P	1.5	4.1	2.4	2.9	2.7	2.0	1.9	3.2	1.6	7.8	5.0	2.0	1.8	4.2	5.0	2.5	5.9	2.4	3.1	3.0
RESPONSE: 09 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	6.7	1.9	1.2	-1.2	-1.8*	-1.1*	1.2*	4.5#	-1.0#	-3.7*	-2.2	-1.8*	-3.7#	4.6	2.2	0.1	0.7	-1.6	1.4	-5.1#
STD ERR OF DP		1.3	1.1	1.1	0.9	0.5	0.5	1.6	0.3	1.6	2.2	0.9	0.6	2.6	2.8	0.9	1.3	1.3	1.7	1.0
STD ERR OF P	0.6	1.6	1.2	1.3	0.8	0.7	0.9	1.7	0.7	1.6	2.1	0.9	0.7	2.8	3.0	1.1	1.4	1.3	1.9	0.8

Data Tables

Data tables for every exercise (released or unreleased) included in the mathematics assessment are presented in this volume. The exercise's NAEP number and report number (including part suffix letters for multipart exercises) are printed at the top of each data table page. For each exercise, data are presented for the nation and the 19 reporting groups. These groups are listed as column headings across the top of each page. The data table for released Exercise RA01 is presented on the next page and will be used as the example data table for released exercises.

Explanation of Data Tables for Released Exercises

The first level of text describes the exercise or exercise part; Exercise RA01 asked respondents to indicate "What digit is in the tens place in 4,263?" Under the exercise or exercise-part level text, each response category is presented. For Exercise RA01, the response categories were "No Response," "2," "3," "4," "6" and "I Don't Know." The first response category for which data are presented is "No Response," which was coded "00" for the computer analyses. A set of results for this response category are presented for 9-year-olds. If the exercise had also been administered to other age levels, a set of results to this response category would have also been presented for the 13-year-olds, 17-year-olds and young adults. The response category that contains the total percentage of correct or acceptable responses to the exercise or exercise part has an asterisk (*) attached to the response code. The fifth response category to Exercise RA01 was the correct answer; its response code is listed as "04*" on the data table.

P-Values

At each age level for each response category, the first number presented is the national p-value. For Exercise RA01, the estimated percentage of 9-year-olds who gave no response was 0.0, the estimated percentage of 9-year-olds who incorrectly selected "2" was 6.0 and the estimated percentage of 9-year-olds who selected the correct response ("6") was 75.2. For the response category that contains the total percentage of correct or acceptable responses, the p-value for each of the 19 reporting groups is also presented. On Exercise RA01, the estimated percentage of black 9-year-olds selecting the correct answer was 56.6, the estimated percentage of Northeastern 9-year-olds selecting the correct answer was 81.4, the estimated percentage of main-big-city 9-year-olds selecting the correct answer was 81.1 and so on for the other reporting groups.

Delta P-Values

The delta p-values (or more simply, delta-p's) are printed for each response category for each of the 19 reporting groups within each age level. On Exercise RA01, the Central region's delta-p for the correct response (response code "04*") was 4.3; the p-value for the Central region equals its delta-p (4.3) plus the national p-value for this response category (75.2). Thus, the p-value for the Central region is 79.5 for this response category. Note that the p-values presented for the correct response category may differ for the "computed" p-values (using the method above) by one-tenth of a percent (0.1%) due to rounding error. The sixth response category to Exercise RA01 was the "I don't know" choice (response code "09"). The delta-p for Southeastern 9-year-olds for this response category was 1.9, while for 9-year-olds from the Central region, it was -1.2; for this response category the p-value for Southeastern 9-year-olds was 8.6 (1.9 + the national p-value, 6.7), while for 9-year-olds from the Central region it was 5.5 (-1.2 + 6.7). The delta-p for this category was 1.2 and -1.8 for the Western and Northeastern regions, respectively. By looking at the delta-p's for this category, it indicates that the rate responding "I don't know" to this exercise was slightly higher than the nation as a whole for 9-year-olds from the Southern and Western regions and slightly lower for those from the Central and Northeastern regions.

Standard Errors

The standard error for each delta-p is an estimate of the variability in the obtained delta-p due to sampling error. If the obtained difference (delta-p) is at least twice as large as the estimate of its standard error, then the group's performance is considered to be different from the nation's performance. Statistically, this means that a difference of that size could occur by chance alone in only 5% of the possible samples of the same size. Such differences are significant at the .05 level of statistical significance and are indicated by an asterisk (*) beside the delta-p in the data table. If a delta p-value is equal to or greater than two and one-half times the estimate of its standard error, this will be indicated by a pound sign (#) beside the delta-p in the data table. Differences of this magnitude could occur by chance alone in only 1% of the possible samples, and are significant at the .01 level of statistical significance. For example, on Exercise RA01, the delta p-values for 9-year-olds from the low-metro, main-big-city and high-metro size-and-type-of-community groups were significantly different from the nation as a whole with regard to selecting the correct response to this exercise.

Data Tables for Unreleased Exercises

Data tables for the unreleased exercises are also included in this volume. However, results are only presented for the no response, correct or acceptable response(s), and "I don't know" response categories. The text for the unreleased exercises describes the exercise's relationship to the mathematics content areas and objectives.[3] Except for these changes, the data tables are the same as those for the released exercises. The data table for Exercise UA01 is presented on the next page as an example. This unreleased exercise dealt with the content area of Number and Numeration Concepts at the level of Objective I (recall and/or recognize definitions, facts and symbols). The estimated percentage of 9-year-olds who gave no response to the exercise was 1.0, while an estimated percentage of 86.9 gave an acceptable response to this exercise. The delta-p's for 9-year-olds from the Southeastern and Central regions differed significantly from the nation as a whole with regard to giving an acceptable response to this exercise.

Organization of This Volume

The remainder of this volume is divided into two appendices. Appendix C is devoted to the released mathematics exercises. For each exercise, the reader will find a copy of the exercise (as presented to respondents), a documentation page, a scoring guide for free-response or open-ended exercises and a complete data table. Appendix D is devoted to the unreleased mathematics exercises. For each exercise, the reader will find a documentation page and a limited data table (as explained in the preceding section). Both sections are organized according to the content areas (A through Q).

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[3] An outline of the mathematics objectives is provided in Appendix A, and an outline of the mathematics content areas is provided in Appendix B of this report.

APPENDIX A

THE MATHEMATICS OBJECTIVES

OBJECTIVES (OR ABILITIES)

The objectives of mathematics education can be described in terms of successive level of developed abilities.

Development of each level of ability can be demonstrated by performance of specific tasks appropriate to each age level. These tasks will include content used in social, technical, or academic settings.

I. *Recall and/or recognize definitions, facts and symbols.*

A task assessing this ability will require only that the examinee be able to recognize typical mathematical symbolism, or to recall specific facts. It is the lowest of the levels of cognitive ability in mathematics but is an essential aspect of achievement. Difficulty level in this category will depend more on exposure to the material and on memory than on developed skill.

II. *Perform mathematical manipulations.*

The second level of ability will be assessed by means of tasks which require the examinee to carry out single operations and procedures (or sequences of these), that have been previously learned and are specifically requested. Such tasks will require developed skill but will not require any decision as to which process or sequence of processes is needed (e.g., algorithm). It is in this category that all straightforward computation is included from simple addition to operations with complex numbers; it also includes solution of equations, evaluation of functions, etc. In any case the tasks which the examinee is required to perform involve only the rote application of learned techniques.

III. *Understand mathematical concepts and processes.*

This third level will include tasks which demonstrate understanding of concepts and of mathematical processes through the ability to transform or translate from one type of "language" or symbolism to another. Since the demonstration of comprehension must involve communication, this level will assess comprehension through tasks which include the following possible kinds of translations or transformations within a mathematical context:

- verbal to mathematical (e.g., words to symbols)
- mathematical to verbal (e.g., symbolism to verbal)
- mathematical to mathematical (e.g., translating from one kind of representation to another like an equation to a graph of the equation)
- mathematical to physical (e.g., use of charts to explain fractions)
- physical to mathematical (e.g., developing formulae for physical phenomena)
- verbal to verbal (e.g., explanation)

IV. *Solve mathematical problems–social, technical, and academic.*

Assessment of the ability to solve problems requires the examinee to demonstrate the ability to select knowledge, skills, information, and techniques which are needed to solve a particular problem and to apply such background in actually solving the problem.

Included in an assessment of the ability to solve problems will be tasks ranging from routine to unfamiliar, from specific to abstract, and from those whose solutions are straightforward to those which require ingenuity and insight.

Included under IV will be much of the consumer mathematics used by the majority of adults. Also included will be the ability to follow a proof, find a flaw in a proof, construct a deductive proof, as in a plane geometry problem.

The common characteristic of tasks in this category will be that they require the individual to analyze a problem and determine a sequence of steps which will lead to a clearly specified outcome (whether the outcome is finding the cost of a purchase or proving a theorem).

V. *Use mathematics and mathematical reasoning to analyze problem situations, define problems, formulate hypotheses, make decisions, and verify results.*

This level is a combination of those high level mathematical abilities which are open-ended and which require the use of mathematical techniques and patterns of thought in an independent and constructive way.

Tasks in this category include those which assess the ability to transfer and utilize knowledge in new situations, to recognize patterns, to draw conclusions from given data, to plan for the future on the basis of present information, and to use mathematical reasoning to make optimum decisions.

Tasks in this category also include the ability to recognize the existence of a problem, the ability to state it formally, the ability to formulate hypotheses, and the ability to ascertain if the problem has a unique solution. Assessment of the sufficiency of conditions and the determination of the minimum conditions necessary for proof, the disproof of hypotheses by counter-example, and proof by induction all come under this heading.

APPENDIX B

THE MATHEMATICS CONTENT AREAS

CONTENT

The content domain for the national assessment includes all mathematics currently taught in the elementary and secondary schools of the nation, up to but not including the calculus. The scope of this content for the different age levels is indicated on the accompanying outlines.

A. Number and Numeration Concepts

1. Numeration Systems
    - a. Decimal-Place Value
    - b. Roman
    - c. Other Bases
    - d. Modular Arithmetic
2. Number Systems
    - a. Whole Numbers
        - – Counting
        - – Odd and Even Numbers
        - – Prime and Composite Numbers
        - – Divisibility, Greatest Common Factor, Least Common Multiple
        - – Factorials
    - b. Integers
    - c. Rational Numbers
        - – Representation (fraction, decimal, percent)
    - d. Real Numbers
        - – Real Number Line
        - – Irrational Numbers
        - – Absolute Value
    - e. Complex Numbers

B. Properties of Numbers and Operations

1. Whole Numbers
    - a. Order Property
    - b. Addition and Multiplication
        - – Closure Properties
        - – Commutative Properties
        - – Associative Properties
        - – Distributive Property
        - – Identity Properties
        - – Zero Multiplicative Property
    - c. Subtraction (as inverse of addition)
    - d. Division (as inverse of multiplication)
2. Rational Numbers
    - a. Field Properties
    - b. Order Properties
    - c. Density Property
3. Real Numbers
    - a. Field Properties
    - b. Order Properties
    - c. Completeness Property
4. Complex Numbers

C. Arithmetic Computation

1. Whole Numbers

2. Rational Numbers (positive and negative)
3. Real Numbers
4. Complex Numbers
5. Ratio, Proportion, and Percent
6. Computation with Approximate Data
7. Rounding Off

D. Sets

1. Properties
2. Operations and Relationships

E. Estimation and Measurement

1. Standard Units
    a. Time
    b. Distance
    c. Area Volume
    d. Weight
    e. Capacity
    f. Temperature
    g. Money
2. Conversion Relations

F. Exponents and Logarithms

1. Exponential and Logarithmic Equations
2. Logarithmic Computation
3. Manipulation of Radicals
4. Scientific Notation
5. Using Tables

G. Algebraic Expressions

1. Properties of Expressions (variables, constants, and order of operations)
2. Monomials and Polynomials
3. Rational and Irrational Expressions
4. Manipulation of Expressions
    a. Combining Like Terms
    b. Removing Parentheses
    c. Operations with Expressions
    d. Factoring
5. Evaluating Expressions

H. Equations and Inequalities

1. Linear Equations and Inequalities
    a. Finding solution of equations and inequalities in one variable
    b. Finding solution sets of systems of equations and inequalities in two or more variables
        – Determinants
2. Higher Degree Equations and Inequalities
    a. Finding solution of equations and inequalities in one variable
    b. Finding solution sets of systems in two or more variables
3. Evaluating Formulas
4. Graphic Interpretation of Equations and Inequalities
    a. Graphs of equations and inequalities in rectangular coordinates
    b. Using graphs to find solution sets of equations and inequalities
5. Solving Equations and Inequalities with Absolute Values

I. Functions

1. Definition of a Function–Functional Notation

a. Domain and Range
b. Evaluating Functions
c. Zeros of a Function

2. Linear Functions and Their Graphs

a. Slope of a Line
b. y-intercept
c. Writing Equations of Linear Functions

3. Quadratic Functions and Their Graphs

a. Writing Equations of Quadratic Functions
b. Analysis of Graphs of Quadratic Functions

4. Maxima and Minima of Functions

J. Probability and Statistics

1. Basic Probability Concepts

a. Permutations and Combinations
b. Outcomes, Samples, Spaces, and Events
c. Probability of an Event

2. Descriptive Statistics

a. Measures of Central Tendency
b. Measures of Dispersion
c. Measures of Relationship

K. Geometry

1. Points, Lines, and Planes

a. Rays, Segments, and Angles
b. Sets of Points (locus)

2. Polygons and Polyhedra

3. Circles and Spheres

4. Similarity and Congruence

5. Metric Geometry

a. Length
– Pythagorean Theorem
b. Area
c. Volume
d. Angle Measurement

6. Geometric Constructions

7. Coordinate Geometry

a. Cartesian Coordinates
b. Polar Coordinates
c. Distance Formula

L. Trigonometry

1. Trigonometric Functions

a. The Oriented Angle
b. Definition of Functions
c. Graphs of Functions (amplitude and periodicity)
d. Inverse Functions
e. Functions of Sums and Differences (half- and double-angle formulas)

2. Relations Among Trigonometric Functions

a. Trigonometric Functions
b. Trigonometric Identities

3. Solution of Triangles

N. Logic

P. Business and Consumer Mathematics

1. Personal and Bank Records

2. Buying

3. Personal Finance

a. Figuring Take Home Pay

    b. Budgeting Problems (e.g., home and travel expenses)

4. Income from Commissions

5. Borrowing

    a. On a Note
    b. From a Bank
    c. On Collateral
    d. From a Credit Union or Loan Company
    e. Installment Buying

6. Savings, Insurance, and Investments

7. Taxes

Q. Methods of Representing Data (tables, bar graphs, etc.)

APPENDIX C

RELEASED EXERCISES

RA01
OBJ I

What digit is in the tens place in 4,263?

○ 2
○ 3
○ 4
● 6

○ I don't know

Report #: RA01

NAEP #: A11001-1

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age: 9
Package-Exercise: 03-29
National P-value:
RA01 75.21

Timing: (in seconds)
Stimulus: 10
Response: 7
I don't know: 5
Pause: 6
RA01 Exercise total: 28

EXERCISE: RA01

What digit is in the tens place in 4,263?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIG METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.0	0.0	-0.1	-0.1	0.1	0.1	-0.1	0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.2	-0.1
STD ERR OF DP		0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0
RESPONSE: 01 AGE: 9 TEXT: 2																				
DELTA-P	6.0	2.2	1.4	-1.9*	-1.5	-0.3	0.3	2.3	-0.7*	8.1	1.3	-1.2	-0.8	1.6	-1.8	0.4	2.4	0.5	-1.6	-2.0
STD ERR OF DP		1.1	0.9	0.7	0.9	0.5	0.5	1.4	0.3	5.9	2.8	0.9	0.8	1.9	1.8	0.8	1.4	1.2	1.2	1.2
STD ERR OF P	0.5	1.3	1.0	0.8	1.0	0.7	0.8	1.4	0.6	6.1	2.8	0.9	0.9	2.0	1.8	1.0	1.4	1.2	1.3	1.3
RESPONSE: 02 AGE: 9 TEXT: 3																				
DELTA-P	4.4	2.6*	-0.2	-1.0	-1.1	0.0	-0.0	6.0*	-1.0*	10.8*	-0.2	-0.2	-1.0	7.7*	1.7	-0.9	0.3	-2.0*	-0.9	-0.7
STD ERR OF DP		1.0	0.6	0.6	0.7	0.5	0.5	1.2	0.3	3.5	2.0	0.8	0.6	1.7	1.5	0.5	1.1	0.9	1.0	1.2
STD ERR OF P	0.4	1.2	0.6	0.7	0.9	0.6	0.6	1.3	0.4	3.6	2.1	0.9	0.8	1.8	1.6	0.6	1.1	0.9	1.1	1.3
RESPONSE: 03 AGE: 9 TEXT: 4																				
DELTA-P	7.7	2.5	-0.1	-0.3	-2.0*	1.1	-1.1	5.7*	-1.4*	-3.8*	0.8	1.0	-1.0	3.1	-0.3	0.3	2.0	-2.7*	-0.6	-1.5
STD ERR OF DP		1.4	1.1	1.1	1.0	0.6	0.7	1.8	0.4	1.6	2.7	1.2	0.9	2.7	2.3	0.9	2.7	1.1	1.0	1.7
STD ERR OF P	0.6	1.7	1.2	1.2	1.0	0.9	0.9	2.0	0.7	1.7	2.8	1.3	0.9	2.8	2.3	1.1	2.9	1.1	0.9	1.7
RESPONSE: 04* AGE: 9 TEXT: 6																				
DELTA-P	75.2	-9.3*	-2.3	4.3	6.2*	0.3	-0.4	-18.6*	4.1*	-11.3	0.5	2.2	6.5*	-16.9*	-1.9	0.2	-5.3	5.9*	1.6	9.4*
STD ERR OF DP		3.5	2.2	2.4	2.4	1.2	1.3	2.9	0.8	7.1	4.7	1.8	1.5	4.0	4.4	1.9	5.4	2.4	3.1	3.0
P-VALUE	75.2	66.0	72.9	79.5	81.4	75.5	74.9	56.6	79.3	63.9	75.7	77.4	81.8	58.3	73.4	75.4	69.9	81.1	76.8	84.6
STD ERR OF P	1.5	4.1	2.4	2.9	2.7	2.0	1.9	3.2	1.6	7.4	5.0	2.0	1.8	4.2	5.0	2.5	5.9	2.4	3.1	3.0
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	6.7	1.9	1.2	-1.2	-1.8*	-1.1*	1.2*	4.5*	-1.0*	-3.7*	-2.2	-1.8*	-3.7*	4.6	2.2	0.1	0.7	-1.6	1.4	-5.1*
STD ERR OF DP		1.3	1.1	1.1	0.9	0.5	0.5	1.6	0.3	1.6	2.2	0.9	0.6	2.6	2.8	0.9	1.3	1.3	1.7	1.0
STD ERR OF P	0.6	1.6	1.2	1.3	0.8	0.7	0.9	1.7	0.7	1.6	2.1	0.9	0.7	2.8	3.0	1.1	1.4	1.3	1.9	0.8

RA02
OBJ III

762 =

○ 7 + 6 + 2.

○ 7 + 60 + 200.

● 700 + 60 + 2.

○ 70 + 60 + 20.

○ I don't know.

Report #: RA02

NAEP #: A11014-1

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age: 9
Package-Exercise: 07-10
National P-value:
RA02 74.25

Timing: (in seconds)
Stimulus: 5
Response: 21
I don't know: 5
Pause: 5
RA02 Exercise total: 36

EXERCISE: RA02

762=

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.0	0.8	-0.3	-0.1	-0.3	0.1	-0.1	1.6*	-0.3*	0.2	1.3	-0.5	-0.5	1.2	-1.0#	-0.2	0.5	-0.4	0.9	-0.6
STD ERR OF DP		0.6	0.4	0.3	0.4	0.2	0.2	0.7	0.2	1.2	1.9	0.3	0.3	0.9	0.3	0.3	0.6	0.6	1.0	0.5
STD ERR OF P	0.3	0.8	0.4	0.3	0.4	0.4	0.3	0.8	0.3	1.2	2.0	0.3	0.2	0.9	0.0	0.3	0.7	0.6	1.2	0.4
RESPONSE: 01 AGE: 9 TEXT: 7 + 6 + 2																				
DELTA-P	8.4	4.0#	-1.7	-0.9	-1.3	-0.4	0.4	10.1#	-2.0#	3.8	1.3	-0.9	-2.2#	6.8*	5.4#	0.1	-1.4	2.5	-1.5	-6.7#
STD ERR OF DP		1.6	1.3	1.0	1.4	0.6	0.6	1.7	0.4	3.2	2.2	1.1	0.8	3.1	1.8	1.0	1.6	2.5	1.3	1.3
STD ERR OF P	0.8	2.0	1.4	1.1	1.6	1.0	1.0	2.1	0.6	3.2	2.2	1.2	1.1	3.2	1.9	1.0	1.6	3.0	1.5	1.2
RESPONSE: 02 AGE: 9 TEXT: 7 + 60 + 200																				
DELTA-P	5.4	2.0*	-0.6	-0.6	-0.7	-0.9	0.9	5.9#	-1.1#	2.5	3.7	0.7	-2.6#	4.9#	-0.0	-0.4	-0.8	1.5	-1.2	-0.8
STD ERR OF DP		1.0	1.1	0.9	0.9	0.6	0.6	1.5	0.3	2.5	2.5	1.1	0.7	1.8	1.4	0.8	1.4	1.6	1.3	1.4
STD ERR OF P	0.6	1.1	1.2	1.2	1.0	0.7	0.9	1.8	0.6	2.8	2.6	1.4	0.7	2.0	1.4	0.9	1.5	1.7	1.4	1.5
RESPONSE: 03* AGE: 9 TEXT: 700 + 60 + 2																				
DELTA-P	74.3	-12.5#	2.0	3.8	5.6*	2.2*	-2.2*	-28.0#	5.5#	-9.9	-9.8*	4.1*	11.1#	-19.2#	-6.6	1.0	-2.0	-1.1	2.7	12.3#
STD ERR OF DP		3.5	2.4	2.1	2.4	0.9	1.0	2.3	0.8	5.1	4.6	1.9	1.4	3.3	5.2	2.0	4.4	5.0	3.7	2.5
P-VALUE	74.3	61.8	76.3	78.0	79.9	76.5	72.0	46.2	79.7	64.4	64.5	78.4	85.4	55.1	67.7	75.2	72.3	73.1	77.0	86.6
STD ERR OF P	1.6	4.5	2.3	2.1	2.7	2.0	1.7	2.7	1.4	5.8	4.7	2.3	1.7	3.1	5.4	2.0	4.8	5.7	4.4	2.1
RESPONSE: 04 AGE: 9 TEXT: 70 + 60 + 20																				
DELTA-P	2.7	0.1	0.1	-0.4	0.2	-0.2	0.3	1.9	-0.5	-1.1	0.0	-0.2	-0.8	1.1	-0.5	0.3	0.4	-0.4	-1.2	0.4
STD ERR OF DP		0.5	0.8	0.5	0.6	0.3	0.3	1.0	0.3	1.2	1.4	0.7	0.5	1.6	1.1	0.5	0.7	1.1	0.7	1.1
STD ERR OF P	0.4	0.5	1.0	0.6	0.8	0.5	0.5	1.1	0.3	1.2	1.4	0.7	0.5	1.7	1.1	0.5	0.7	1.2	0.8	1.3
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	8.2	5.5#	0.5	-1.8	-3.5#	-0.9	0.9	8.6#	-1.6#	4.5	3.5	-3.2#	-5.0#	5.2	2.7	-0.7	3.3	-2.1	0.2	-4.6#
STD ERR OF DP		1.6	1.2	1.1	1.1	0.5	0.5	1.9	0.4	3.6	3.2	0.9	0.7	2.7	2.6	0.9	2.6	2.3	2.4	1.2
STD ERR OF P	0.7	2.0	1.3	1.3	1.1	0.9	0.9	2.0	0.8	3.8	3.1	0.8	0.7	2.8	2.9	1.0	2.9	2.2	2.6	1.2

RA03
OBJ III

In our usual numeration system, which has 10 as its base, the numeral 25 means "2 tens plus 5 ones." In a system that has 9 as its base, the numeral 25 means

● 2 nines plus 5 ones.
○ 2 tens plus 5 ones.
○ 5 nines plus 2 ones.
○ 5 tens plus 2 ones.

○ I don't know.

Report #: RA03

NAEP #: A13002-234

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		05-10	02-14	01-19
National P-value:				
	RA03	41.64	49.78	37.78
Timing: (in seconds)				
	Stimulus:	27	26	29
	Response:	16	16	*
	I don't know:	5	5	*
	Pause:	6	6	*
RA03	Exercise total:	54	53	*

*Time not limited by paced tape.

EXERCISE: RA03

In our usual numeration system, which has 10 as its base, the numeral 25 means "2 tens plus 5 ones." In a system that has 9 as its base, the numeral 25 means

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.1	-0.0	0.1	-0.1	-0.0	0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.3	0.1
STD ERR OF DP		0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
STD ERR OF P	0.1	0.1	0.2	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.4	0.1
AGE: 17																				
DELTA-P	0.7	-0.6*	0.2	-0.1	0.3	0.2	-0.1	0.2	-0.2	-0.2	0.4	-0.2	-0.2	0.7	0.1	-0.3	0.4	1.3	-0.4	-0.4
STD ERR OF DP		0.2	0.3	0.2	0.3	0.2	0.2	0.5	0.1	0.4	0.5	0.2	0.2	0.7	0.5	0.2	0.6	1.1	0.3	0.2
STD ERR OF P	0.1	0.1	0.4	0.3	0.3	0.3	0.2	0.5	0.2	0.4	0.5	0.3	0.2	0.7	0.5	0.2	0.6	1.1	0.2	0.2
AGE: Ad																				
DELTA-P	1.0	-0.5	-0.7	0.3	0.8	0.1	-0.1	-1.0*	0.2*	-0.2	0.0	-0.0	0.1	-0.5	-0.5	0.2	0.7	1.4	-1.0*	-0.6
STD ERR OF DP		0.4	0.4	0.6	0.6	0.3	0.3	0.3	0.1	0.4	0.7	0.4	0.3	0.6	0.5	0.4	0.9	1.9	0.3	0.5
STD ERR OF P	0.3	0.4	0.3	0.8	0.8	0.4	0.4	0.0	0.4	0.4	0.8	0.5	0.5	0.5	0.5	0.5	1.0	2.0	0.0	0.5
RESPONSE: 01* AGE: 13	TEXT: 2 nines plus 5 ones																			
DELTA-P	41.6	-1.9	0.6	-0.4	1.6	-1.0	1.0	-18.6*	3.6*	-12.8*	-6.1	-3.4*	8.8*	-19.7*	3.4	-0.1	4.9	-6.9	-0.4	12.5*
STD ERR OF DP		2.8	2.0	2.3	2.3	1.2	1.2	2.8	0.6	2.9	3.7	1.6	1.3	3.7	3.9	2.0	2.5	3.9	2.9	3.3
P-VALUE	41.6	39.7	42.2	41.3	43.2	40.7	42.6	23.1	45.2	28.8	35.6	38.2	50.4	21.9	45.0	41.5	46.5	34.7	41.2	54.2
STD ERR OF P	1.4	3.2	2.2	2.9	2.5	1.8	1.9	2.8	1.4	3.0	4.1	2.0	1.8	3.5	2.9	2.4	2.6	4.2	3.2	3.6
AGE: 17																				
DELTA-P	49.8	-3.2	3.8	1.7	-2.4	1.6	-1.4	-9.7*	2.4*	-9.8	-10.0*	-1.6	8.0*	-9.1*	-5.7	0.9	2.3	-6.6	4.8	5.2
STD ERR OF DP		2.9	2.7	2.5	2.5	1.2	1.0	2.6	0.6	6.1	3.0	1.9	1.4	3.6	4.5	1.8	4.3	5.0	4.1	4.0
P-VALUE	49.8	46.5	53.5	51.4	47.3	51.4	48.4	40.1	52.2	40.0	39.8	48.2	57.7	40.7	44.1	50.6	52.1	43.2	54.6	55.0
STD ERR OF P	1.5	3.2	3.1	3.0	3.0	2.1	1.7	2.7	1.7	6.5	3.2	2.3	2.0	3.8	4.7	2.3	4.6	5.1	4.4	4.3
AGE: Ad																				
DELTA-P	37.8	-3.5	3.2	-1.4	1.3	2.6	-2.5	-14.8*	1.7*	-8.1*	-0.5	2.1	9.5*	-5.2	-0.2	-1.2	0.2	-4.1	-0.5	10.7*
STD ERR OF DP		1.9	2.3	1.9	2.5	1.4	1.4	4.6	0.7	2.1	2.8	1.9	2.1	4.1	3.4	1.6	3.2	4.0	4.0	3.7
P-VALUE	37.8	34.3	41.0	36.4	39.1	40.4	35.3	23.0	39.5	29.7	37.3	39.9	47.3	32.6	37.6	36.6	38.0	33.7	37.3	48.5
STD ERR OF P	1.2	1.8	2.8	2.2	2.9	2.1	1.7	4.7	1.4	2.4	3.0	2.1	2.6	4.2	3.6	2.0	3.3	4.3	4.0	4.0
RESPONSE: 02 AGE: 13	TEXT: 2 tens plus 5 ones																			
DELTA-P	30.1	2.7	-0.7	-1.4	0.1	2.8*	-2.8*	12.1*	-2.5*	8.3*	8.3*	1.9	-6.3*	16.7*	0.2	-1.7	2.5	4.3	-1.6	-12.0*
STD ERR OF DP		2.8	2.0	2.2	2.1	1.2	1.2	2.3	0.5	3.8	3.2	1.6	1.1	3.5	5.6	2.1	3.5	2.9	2.7	1.7
STD ERR OF P	1.3	3.2	2.2	2.7	2.2	1.7	1.8	2.2	1.4	3.9	3.3	2.2	1.6	3.5	6.0	2.2	3.9	3.0	2.9	1.7
AGE: 17																				
DELTA-P	19.5	3.5	-2.1	0.3	-1.3	-0.8	0.7	10.8*	-2.1*	7.6	8.5*	0.7	-5.8*	8.0*	0.6	1.7	-1.8	-2.6	-4.1	-5.7*
STD ERR OF DP		1.9	2.1	1.6	1.6	1.0	0.9	2.7	0.6	4.0	2.5	1.5	1.0	3.3	2.6	1.5	2.8	3.2	2.6	2.7
STD ERR OF P	1.0	2.1	2.5	1.9	1.8	1.5	1.3	2.8	1.1	4.2	2.9	2.0	1.1	3.5	2.6	1.9	2.8	3.0	2.9	2.9
AGE: Ad																				
DELTA-P	16.9	3.8	-2.0	-0.3	-0.9	-2.6*	2.4*	3.7	-0.7	0.9	1.9	0.7	-4.8*	2.3	-2.4	1.5	5.4	-2.6	-5.2*	-2.9
STD ERR OF DP		2.5	1.2	1.1	1.4	0.8	0.8	3.0	0.4	1.8	1.9	1.5	1.4	2.4	2.7	1.3	2.9	3.3	2.1	2.2
STD ERR OF P	0.9	3.1	1.2	1.1	1.6	1.1	1.2	3.3	0.9	2.0	1.8	1.8	1.6	2.3	2.9	1.7	2.9	3.4	2.0	2.2
RESPONSE: 03 AGE: 13	TEXT: 5 nines plus 2 ones																			
DELTA-P	5.0	0.5	-0.1	-0.2	-0.1	-0.6	0.6	4.2*	-0.6*	2.5	1.3	-0.2	-0.2	0.6	-2.4*	0.3	0.1	0.5	1.6	-2.0
STD ERR OF DP		1.0	0.6	0.6	0.7	0.4	0.4	1.3	0.2	1.7	1.6	0.7	0.5	1.2	0.9	0.7	0.9	1.0	1.3	1.2
STD ERR OF P	0.4	1.1	0.7	0.7	0.8	0.6	0.6	1.3	0.5	1.8	1.6	0.8	0.7	1.2	0.9	0.9	0.9	1.0	1.4	1.2
AGE: 17																				
DELTA-P	2.5	2.9*	-0.1	-1.2*	-0.9*	0.3	-0.3	3.1*	-0.5*	-1.0	2.5*	-0.3	-0.5	1.0	0.7	0.1	0.3	0.6	-0.0	-2.6*
STD ERR OF DP		0.9	0.5	0.4	0.4	0.3	0.3	1.1	0.2	0.7	1.1	0.5	0.4	1.0	1.0	0.4	0.7	2.2	0.8	0.3
STD ERR OF P	0.3	1.0	0.6	0.4	0.4	0.5	0.4	1.2	0.3	0.7	1.3	0.6	0.4	1.0	1.1	0.6	0.8	2.3	0.8	0.0

EXERCISE: BA03

In our usual numeration system, which has 10 as its base, the numeral 25 means "2 tens plus 5 ones." In a system that has 9 as its base, the numeral 25 means

	NATION	REGION SOUTH EAST	 WEST	 CENTRAL	 NORTH EAST	SEX MALE	 FEMALE	RACE BLACK	 WHITE	PARENTAL EDUCATION NO HS	 SOME HS	 GRAD HS	 POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	 EXTREME RURAL	 SMALL PLACES	 MEDIUM CITY	 MAIN BIG CTY	 URBAN FRINGE	 HIGH METRO
RESPONSE: 03 AGE: Ad TEXT: 5 nines plus 2 ones																				
DELTA-P	3.7	1.6	-1.1	-0.6	0.4	0.0	-0.0	6.6#	-0.9#	2.0*	-0.4	-1.2*	-0.5	4.9#	-1.4	-0.0	1.0	-2.1	-0.9	-1.3
STD ERR OF DP		0.9	0.8	0.6	0.9	0.5	0.4	1.9	0.3	0.9	0.8	0.6	0.8	1.8	1.1	0.5	1.3	1.2	1.1	1.0
STD ERR OF P	0.4	1.0	1.0	0.6	1.0	0.7	0.6	2.1	0.4	1.1	0.8	0.6	0.9	1.8	1.2	0.7	1.4	1.2	1.1	1.0
RESPONSE: 04 AGE: 13 TEXT: 5 tens plus 2 ones																				
DELTA-P	1.9	1.2	-0.5	-0.0	-0.5	-0.2	0.2	3.5#	-0.7#	-0.6	1.1	0.5	-0.8*	3.1*	-0.3	-0.2	-0.3	0.0	-0.4	-0.4
STD ERR OF DP		0.7	0.5	0.5	0.4	0.3	0.3	1.0	0.2	0.8	1.0	0.5	0.4	1.5	0.7	0.5	0.8	0.7	0.6	0.7
STD ERR OF P	0.3	0.8	0.5	0.7	0.4	0.4	0.4	1.1	0.2	0.9	1.0	0.6	0.4	1.6	0.7	0.6	0.9	0.8	0.7	0.8
AGE: 17																				
DELTA-P	0.7	-0.0	0.4	-0.2	-0.1	-0.1	0.1	0.7	-0.2	0.1	0.5	-0.2	-0.2	1.0	0.4	-0.2	0.5	-0.7#	-0.1	-0.7#
STD ERR OF DP		0.3	0.5	0.3	0.3	0.2	0.1	0.4	0.1	0.6	0.4	0.2	0.2	0.8	0.7	0.2	0.6	0.2	0.5	0.2
STD ERR OF P	0.2	0.3	0.6	0.3	0.3	0.2	0.2	0.5	0.2	0.7	0.4	0.3	0.3	0.9	0.7	0.2	0.7	0.0	0.6	0.0
AGE: Ad																				
DELTA-P	0.7	0.6	-0.6#	0.1	0.1	-0.3	0.3	2.2	-0.2	0.7	-0.2	-0.2	-0.6#	1.4	-0.1	0.1	-0.5	-0.2	-0.1	-0.7#
STD ERR OF DP		0.5	0.2	0.3	0.4	0.2	0.2	1.1	0.1	0.4	0.4	0.3	0.2	1.1	0.5	0.3	0.3	0.5	0.6	0.2
STD ERR OF P	0.2	0.6	0.1	0.4	0.5	0.2	0.3	1.2	0.2	0.5	0.4	0.3	0.1	1.2	0.5	0.3	0.3	0.5	0.6	0.0
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	21.3	-2.4	0.6	2.1	-1.0	-1.1	1.1	-1.2	0.4	2.6	-4.6	1.2	-1.6	-0.6	-1.0	1.7	-7.0#	2.3	0.5	1.8
STD ERR OF DP		1.7	1.4	1.5	1.8	1.0	1.0	2.6	0.4	3.7	3.2	1.6	1.2	3.1	4.4	1.6	2.4	3.3	2.5	2.9
STD ERR OF P	0.9	1.9	1.4	1.8	2.2	1.3	1.4	2.8	1.0	3.7	3.4	1.8	1.6	3.2	4.6	1.7	2.4	3.6	2.7	3.1
AGE: 17																				
DELTA-P	26.8	-2.6	-2.3	-0.4	4.5*	-1.2	1.1	-5.1	0.5	3.3	-1.9	1.6	-1.3	-1.6	3.9	-2.3	-1.7	8.1	-0.1	4.2
STD ERR OF DP		2.3	2.1	2.0	1.9	1.1	0.9	2.6	0.6	4.7	3.3	1.5	1.3	2.7	5.2	1.6	3.1	4.1	2.8	3.9
STD ERR OF P	1.2	2.6	2.4	2.4	2.1	1.6	1.5	2.7	1.4	5.2	3.5	1.8	1.8	2.6	5.5	2.0	3.3	4.2	3.2	4.1
AGE: Ad																				
DELTA-P	39.9	-2.0	1.1	1.9	-1.7	0.1	-0.1	3.3	-0.0	4.6*	-0.8	-1.4	-3.8	-2.8	4.6	-0.6	-6.8	7.7*	7.7	-5.3
STD ERR OF DP		2.6	2.0	1.9	2.5	1.3	1.3	3.8	0.6	2.3	2.4	2.2	2.4	3.4	3.1	1.9	4.5	3.7	4.0	3.3
STD ERR OF P	1.3	3.0	2.3	2.2	2.9	1.9	1.8	4.0	1.3	3.0	2.7	2.0	2.8	3.6	3.3	2.3	4.6	4.1	4.0	3.6

RA04
OBJ V

The first three odd numbers are 1, 3, and 5. What is the next odd number after 5?

ANSWER ____________________

Report #: RA04

NAEP #: A21004-1

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		02-03
National P-value:		
	RA04	80.30

Timing: (in seconds)

	Stimulus:	8
	Response:	11
RA04	Exercise total:	19

SCORING GUIDE
RA04
A21004-1

00 = No Response

10 = 7

11 = 7,9,11

12 = Gives 7 first plus other odd number(s): e.g., 7,9; 7,11; 7,9,13

20 = 9

21 = 6; 6,7,... (increments by 1 each time)

22 = "2,4,6"

23 = 3

24 = Other Unacceptable

39 = I Don't Know.

EXERCISE: PA04

The first three odd numbers are 1, 3, and 5. What is the next odd number after 5?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	2.4	1.2	0.3	-0.3	-1.0	0.8	-0.8*	5.4#	-1.2#	4.5	-1.0	-1.0	-1.3#	4.6#	0.7	-0.9	0.3	-0.2	0.1	-2.4#
STD ERR OF DP		0.8	0.9	0.8	0.6	0.4	0.4	1.4	0.3	2.4	0.8	0.5	0.5	1.8	1.2	0.5	1.4	1.2	1.0	0.4
STD ERR OF P	0.4	1.0	1.1	0.9	0.6	0.8	0.4	1.6	0.4	2.6	0.8	0.5	0.4	2.0	1.2	0.5	1.6	1.2	1.2	0.0
RESPONSE: 01* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	80.3	-5.8#	-0.5	2.6	3.1	-2.7#	2.6#	-17.5#	4.6#	-14.0#	-8.8	0.3	8.3#	-18.9#	-6.9	1.5	1.3	-2.2	3.6	13.4#
STD ERR OF DP		1.8	2.0	1.8	2.1	0.9	0.9	2.8	0.8	3.6	4.9	1.8	1.2	3.5	3.8	1.7	3.1	3.9	2.2	1.6
P-VALUE	80.3	74.5	79.8	82.9	83.4	77.6	82.9	62.9	84.9	66.3	71.5	80.6	88.6	61.4	73.5	81.8	81.6	78.2	83.9	93.7
STD ERR OF P	1.1	2.0	2.2	2.1	2.6	1.6	1.3	3.1	1.1	3.8	5.0	1.8	1.4	3.9	3.5	2.0	3.3	4.1	2.2	1.2
RESPONSE: 10 AGE: 9	TEXT: 7																			
DELTA-P	79.3	-6.3#	-0.6	3.2	3.0	-3.0#	2.9#	-18.2#	4.7#	-13.9#	-10.8*	0.4	8.3#	-18.4#	-6.7*	1.9	1.7	-2.8	2.5	13.1#
STD ERR OF DP		1.9	2.0	1.8	2.0	1.0	1.0	3.0	0.9	3.5	4.7	1.8	1.3	3.7	3.3	1.7	3.3	3.9	2.3	1.6
STD ERR OF P	1.1	2.0	2.2	2.0	2.5	1.6	1.4	3.3	1.0	3.7	4.9	1.8	1.5	4.0	3.4	2.0	3.5	4.1	2.4	1.4
RESPONSE: 11 AGE: 9	TEXT: 7, 9, 11																			
DELTA-P	0.6	0.5	0.2	-0.5*	-0.2	0.3	-0.3*	0.2	0.0	0.2	2.3	-0.3	0.1	-0.7#	-0.2	-0.1	-0.0	-0.3	1.2	-0.1
STD ERR OF DP		0.3	0.3	0.2	0.2	0.2	0.2	0.5	0.1	0.9	1.8	0.3	0.3	0.2	0.4	0.2	0.6	0.4	0.6	0.4
STD ERR OF P	0.1	0.4	0.3	0.2	0.2	0.3	0.2	0.5	0.2	1.0	1.8	0.2	0.4	0.0	0.4	0.2	0.6	0.4	0.7	0.4
RESPONSE: 12 AGE: 9	TEXT: Given 7 FIRST plus other odd number(s); e.g., 7,9; 7,11; 7,9,13																			
DELTA-P	0.3	0.0	-0.2	-0.2	0.3	-0.0	0.0	0.5	-0.1	-0.3#	-0.3#	0.1	-0.2	0.2	0.1	-0.3#	-0.3#	0.9	-0.1	0.4
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.5	0.1	0.1	0.1	0.3	0.1	0.5	0.4	0.1	0.1	1.1	0.2	0.4
STD ERR OF P	0.1	0.3	0.1	0.1	0.3	0.2	0.2	0.5	0.1	0.0	0.0	0.3	0.1	0.5	0.4	0.0	0.0	1.2	0.2	0.4
RESPONSE: 20 AGE: 9	TEXT: 9																			
DELTA-P	0.9	0.3	-0.4	-0.3	0.5	-0.0	0.0	-0.1	0.1	-0.7	-0.5	1.0	-0.4	-0.4	-0.2	0.1	-0.0	-0.5	0.1	0.6
STD ERR OF DP		0.4	0.3	0.3	0.5	0.2	0.2	0.4	0.1	0.3	0.4	0.7	0.3	0.4	0.5	0.3	0.5	0.4	0.5	0.9
STD ERR OF P	0.2	0.5	0.3	0.3	0.6	0.3	0.3	0.3	0.3	0.2	0.4	0.9	0.3	0.3	0.5	0.4	0.5	0.4	0.5	1.0
RESPONSE: 21 AGE: 9	TEXT: 6; 6,7... (increments by 1 each time)																			
DELTA-P	9.6	2.6	0.1	-0.3	-2.1	2.0#	-1.9#	11.2#	-2.6#	10.4#	7.4*	0.4	-4.3#	10.2#	6.4*	-0.5	-3.0#	3.3	-2.9	-8.0#
STD ERR OF DP		1.6	1.4	1.2	1.4	0.7	0.6	2.1	0.6	3.1	3.0	1.3	0.9	2.9	3.1	1.1	1.2	3.3	1.9	0.9
STD ERR OF P	0.8	1.8	1.5	1.3	1.8	1.1	1.0	2.3	0.9	3.3	3.3	1.4	1.0	3.1	3.4	1.4	1.2	3.4	1.8	0.7
RESPONSE: 22 AGE: 9	TEXT: "2, 4, 6"																			
	Response did not occur at this age.																			
RESPONSE: 23 AGE: 9	TEXT: 3																			
DELTA-P	0.3	0.1	0.3	-0.2	-0.1	-0.1	0.1	0.2	-0.2*	0.7	0.3	-0.1	0.0	-0.0	-0.3#	0.2	-0.3#	0.3	-0.1	-0.0
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.7	0.5	0.1	0.1	0.2	0.1	0.2	0.1	0.5	0.2	0.2
STD ERR OF P	0.1	0.3	0.3	0.1	0.1	0.1	0.2	0.3	0.1	0.7	0.5	0.2	0.1	0.2	0.0	0.2	0.0	0.5	0.2	0.3
RESPONSE: 24 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	3.9	1.7*	-0.5	-1.3*	0.2	0.3	-0.3	1.4	-0.7#	0.5	3.1	0.3	-1.1*	2.5*	0.1	0.2	-0.2	0.7	-0.8	-2.0
STD ERR OF DP		0.8	0.8	0.6	0.6	0.5	0.5	0.8	0.2	1.7	2.4	0.8	0.6	1.2	0.8	0.7	1.5	1.8	1.1	1.1
STD ERR OF P	0.4	1.0	0.9	0.7	0.6	0.7	0.6	0.8	0.5	1.6	2.6	0.9	0.7	1.2	0.9	0.9	1.6	1.8	1.2	1.1
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	2.6	0.1	0.8	-0.3	-0.5	-0.2	0.2	-0.7	-0.1	-1.5	-0.4	-0.9	-1.2*	2.1	0.0	-0.5	1.8	-1.3	-0.0	-1.5*
STD ERR OF DP		0.6	0.6	0.6	0.5	0.4	0.4	0.9	0.2	0.9	1.7	0.5	0.6	1.2	1.0	0.5	1.4	0.7	0.8	0.6
STD ERR OF P	0.3	0.7	0.7	0.7	0.6	0.5	0.5	0.9	0.4	0.9	1.7	0.6	0.6	1.2	1.1	0.6	1.5	0.7	0.9	0.6

RA05
OBJ I

Which one of the following numbers is a PRIME number?

○ 6

● 7

○ 9

○ 15

○ I don't know.

Report #: RA05

NAEP #: A21006-1234

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		9	13	17	Adult
Age:		9	13	17	Adult
Package-Exercise:		01-26	04-21	09-26	02-24
National P-value:	RA05	8.04	58.44	68.99	15.74
Timing: (in seconds)					
	Stimulus:	8	8	8	11
	Response:	22	22	22	*
	I don't know:	5	5	5	*
	Pause:	6	6	6	*
RA05	Exercise total:	41	41	41	*

*Time not limited by paced tape.

EXERCISE: RA05

Which one of the following numbers is a PRIME number?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.1	0.8	1.8	-0.8	-0.2	0.4*	-0.4*	-0.2	-0.5	-0.0	-0.0	0.0	-0.4	8.8	-1.1*	-0.8	-0.6	-0.5	-0.8	-0.2
STD ERR OF DP		0.6	1.5	0.6	0.7	0.2	0.2	1.2	0.3	0.7	1.2	0.7	0.3	6.8	0.5	0.6	0.7	0.8	0.6	0.9
STD ERR OF P	0.5	0.3	2.0	0.2	0.5	0.7	0.4	0.9	0.3	1.1	1.1	0.6	0.4	7.3	0.0	0.3	0.5	0.7	0.4	0.8
AGE: 13																				
DELTA-P	1.2	-0.7	2.0	-0.8	-0.5	0.0	-0.0	1.3*	-0.1	-1.2	-1.2	0.1	0.6	0.2	-0.9	-0.9	-0.2	-0.9	3.8	-1.2
STD ERR OF DP		0.7	2.1	0.7	0.8	0.4	0.4	0.6	0.1	0.7	0.7	0.3	0.5	0.6	0.8	0.7	0.9	0.8	3.6	0.7
STD ERR OF P	0.7	0.2	2.8	0.2	0.3	1.1	0.4	1.1	0.8	0.0	0.0	0.7	1.2	0.7	0.3	0.2	0.5	0.3	4.3	0.0
AGE: 17																				
DELTA-P	1.1	-0.1	-0.6	0.4	0.2	-0.0	0.0	2.6	-0.6	-0.6	-0.0	0.6	-0.4	1.0	-0.8	-0.8	1.2	0.2	0.1	0.4
STD ERR OF DP		0.6	0.5	0.9	0.5	0.3	0.3	1.9	0.4	0.6	0.6	0.5	0.3	1.4	0.5	0.4	2.1	0.8	0.7	0.7
STD ERR OF P	0.4	0.6	0.4	1.2	0.5	0.5	0.4	2.3	0.2	0.5	0.7	0.8	0.3	1.6	0.3	0.3	2.3	0.8	0.7	0.7
AGE: Ad																				
DELTA-P	0.4	0.6	0.3	-0.4	-0.4	0.2	-0.2	-0.4	0.1	-0.4	-0.4	0.3	0.3	-0.4	-0.4	-0.4	-0.4	0.3	1.5	0.5
STD ERR OF DP		0.8	0.4	0.2	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.5	0.4	0.2	0.2	0.2	0.2	0.7	1.6	0.6
STD ERR OF P	0.2	1.0	0.4	0.0	0.0	0.5	0.2	0.0	0.3	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.0	0.7	1.9	0.6
RESPONSE: 01 AGE: 9 TEXT: 6																				
DELTA-P	19.8	-4.5*	0.8	2.8	0.3	0.2	-0.2	-1.1	0.8	-4.5	4.0	-0.5	1.9	3.0	3.1	-0.1	0.1	-5.7#	4.1	-2.4
STD ERR OF DP		1.9	2.0	1.8	2.0	1.0	1.0	2.5	0.5	3.7	4.3	1.7	1.6	4.4	3.7	1.8	2.3	2.3	2.9	3.6
STD ERR OF P	1.1	2.1	2.4	2.0	2.4	1.5	1.5	2.6	1.3	3.6	4.5	2.0	2.1	4.6	3.9	2.0	2.5	2.1	3.2	4.0
AGE: 13																				
DELTA-P	17.0	2.4	3.2	-2.0	-3.0	1.1	-1.1	-0.6	-0.5	4.3	4.4	1.4	-3.8#	3.6	6.5	-2.6	3.3	2.5	-4.5	-4.4*
STD ERR OF DP		2.5	2.0	1.9	1.6	1.1	1.2	2.0	0.4	3.1	2.6	1.5	1.3	2.8	3.5	1.5	2.5	3.3	2.4	2.2
STD ERR OF P	1.1	2.9	2.3	2.3	1.6	1.6	1.6	2.2	1.3	3.1	2.6	1.9	1.9	2.8	3.6	2.1	2.6	3.6	2.7	2.2
AGE: 17																				
DELTA-P	11.1	-2.2	-1.3	3.3*	-0.7	-0.8	0.8	4.4	-1.1#	8.5#	5.8*	0.5	-4.0#	4.0	-0.5	1.2	-0.5	8.6*	-3.8*	-6.8#
STD ERR OF DP		1.7	1.2	1.6	1.8	0.8	0.8	2.4	0.4	3.1	2.9	1.2	0.8	3.4	2.3	1.4	1.8	4.0	1.8	1.5
STD ERR OF P	0.9	1.9	1.0	2.0	2.2	1.2	1.2	2.8	1.0	3.2	3.2	1.7	0.9	3.7	2.5	1.6	1.8	4.4	1.8	1.5
AGE: Ad																				
DELTA-P	23.2	-0.4	1.2	-0.6	-0.2	-0.6	0.6	3.5	-0.5	0.4	3.9	0.1	-3.0	-0.1	-4.5	-0.8	0.2	0.3	5.2	0.1
STD ERR OF DP		1.5	1.7	1.6	2.0	1.1	1.0	3.0	0.5	2.4	2.6	1.9	1.9	2.9	2.4	1.1	2.9	4.3	3.8	3.0
STD ERR OF P	1.0	1.4	2.0	2.0	2.4	1.4	1.5	3.0	1.1	2.7	2.8	1.9	2.3	3.0	2.4	1.3	3.1	4.7	3.9	3.2
RESPONSE: 02* AGE: 9 TEXT: 7																				
DELTA-P	8.0	-0.1	-0.6	2.0	-1.4	1.9#	-1.9#	-4.2#	0.7*	-1.0	1.0	1.0	0.2	-4.3#	0.3	-0.7	-1.1	4.0	2.5	-1.3
STD ERR OF DP		1.7	1.2	1.3	1.2	0.7	0.7	1.1	0.3	2.7	2.4	1.5	0.9	1.6	2.6	1.1	1.6	3.4	1.5	2.1
P-VALUE	8.0	8.0	7.4	10.0	6.7	9.9	6.1	3.8	8.7	7.1	9.1	9.0	8.3	3.8	8.3	7.4	7.0	12.1	10.6	6.7
STD ERR OF P	0.8	2.0	1.3	1.5	1.3	1.0	1.0	1.0	0.9	3.0	2.8	1.7	1.1	1.6	2.9	1.4	1.6	3.6	1.6	2.1
AGE: 13																				
DELTA-P	58.4	-3.9	-9.7#	3.9	8.7#	-2.5*	2.7*	-17.5#	4.8#	-13.1#	-10.6#	0.1	11.4#	-22.5#	-8.3	3.9	-2.3	-0.3	8.0	11.1
STD ERR OF DP		5.2	3.5	3.3	3.2	1.2	1.3	3.2	0.9	4.3	3.8	2.3	1.7	4.7	5.6	2.4	5.1	4.9	4.6	5.8
P-VALUE	58.4	54.5	48.7	62.4	67.1	55.9	61.2	41.0	63.2	45.3	47.9	58.5	69.8	35.9	50.2	62.3	56.2	58.1	66.4	69.5
STD ERR OF P	2.2	6.2	3.9	3.9	3.4	2.7	2.2	3.3	2.4	5.3	4.2	3.1	2.7	4.6	6.5	3.1	5.7	5.2	5.0	6.1
AGE: 17																				
DELTA-P	69.0	-1.3	3.5	-3.1	1.3	-1.4	1.3	-18.4#	4.2#	-15.9#	-15.2#	-2.1	10.2#	-12.6*	-3.4	-1.4	-0.7	-5.1	7.3*	11.1#
STD ERR OF DP		2.4	2.0	2.0	1.8	1.2	1.1	3.3	0.7	4.0	3.3	1.6	1.3	5.4	3.5	2.0	2.8	4.6	3.4	2.7
P-VALUE	69.0	67.7	72.5	65.9	70.3	67.6	70.3	50.6	73.1	53.1	53.8	66.9	79.1	56.4	65.6	67.6	68.3	63.9	76.2	80.1
STD ERR OF P	1.2	2.7	2.2	2.5	2.0	1.8	1.6	3.6	1.3	4.0	3.4	2.0	1.7	5.5	3.8	2.5	2.6	4.7	3.6	2.9

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                              NATION |              REGION               |     SEX       |     RACE      |      PARENTAL EDUCATION         |            SIZE-AND-TYPE OF COMMUNITY
                                     | SOUTH                      NORTH  |               |               |          SOME    GRAD    POST   |  LOW  EXTREME  SMALL  MEDIUM   MAIN   URBAN   HIGH
                             ________|  EAST   WEST  CENTRAL     EAST   |  MALE  FEMALE |  BLACK  WHITE | NO HS    HS      HS      HS    | METRO  RURAL  PLACES   CITY  BIG CTY FRINGE METRO

EXERCISE: RA05

Which one of the following numbers is a PRIME number?


RESPONSE:  02*   AGE: Ad        TEXT:  7

    DELTA-P                   19.7    -3.9*    3.1   -0.5    0.7     3.3*  -3.1*    -9.1*   1.0*   -3.3   -3.9*  -0.2    8.0*    -5.9*  -5.7*  -0.9    0.3    4.0    1.4    6.2*
    STD ERR OF DP                      1.5     2.1    1.8    1.9     0.9    0.9      2.6    0.4     1.7    1.9    1.5    1.8      2.8    2.7    1.3    2.3    4.0    3.5    2.4
    P-VALUE                   19.7    15.9    22.8   19.3   20.4    23.1   16.6     10.7   20.9    16.4   15.9   19.6   27.8     13.8   14.0   18.8   20.0   23.8   21.2   25.9
    STD ERR OF P               1.1     1.4     2.6    2.3    2.0     1.6    1.2      2.6    1.3     2.0    2.3    1.9    2.2      2.8    2.9    1.8    2.5    4.3    3.7    2.4

RESPONSE:  03    AGE:  9        TEXT:  9

    DELTA-P                    9.0     0.1    -0.8    0.2    0.4     0.9   -0.9      2.3   -0.2     0.0    3.6    1.2   -0.1     -3.8   -0.5   -0.1   -1.1    1.1    3.2   -0.6
    STD ERR OF DP                      1.1     1.0    1.2    1.2     0.6    0.6      1.5    0.3     2.3    3.4    1.2    1.0      1.9    1.8    0.8    1.2    1.7    2.3    1.4
    STD ERR OF P               0.7     1.2     1.0    1.5    1.5     0.9    0.9      1.5    0.8     2.4    3.3    1.3    1.3      1.9    1.9    1.0    1.2    1.7    2.7    1.5

                 AGE: 13

    DELTA-P                    7.5    -0.9     1.9   -0.1   -1.0    -0.3    0.3      5.0*  -1.4*   -1.9    3.9*   1.2   -2.2*     3.5    0.2    0.6   -0.6   -0.2   -2.7*  -0.2
    STD ERR OF DP                      0.9     1.2    1.2    0.9     0.6    0.6      1.8    0.4     1.3    1.9    1.2    0.8      2.0    1.8    0.9    1.5    1.8    1.0    1.9
    STD ERR OF P               0.6     0.8     1.4    1.5    1.0     0.8    0.9      1.9    0.7     1.4    2.0    1.6    0.8      2.1    1.9    1.3    1.7    1.9    0.9    1.9

                 AGE: 17

    DELTA-P                    8.9    -1.5     0.4   -0.1    0.9     1.2   -1.1      4.1*  -0.7    -2.9    1.4    1.1   -1.0      2.0    3.3    0.2    0.5   -2.5   -1.3   -1.4
    STD ERR OF DP                      1.2     1.4    1.3    1.7     0.9    0.8      2.0    0.4     1.8    1.8    1.1    0.9      2.6    1.9    1.4    2.0    2.1    2.0    2.2
    STD ERR OF P               0.8     1.2     1.6    1.5    2.1     1.5    0.8      2.0    1.0     1.7    1.9    1.3    1.4      2.5    1.9    1.9    2.1    2.1    2.1    2.3

                 AGE: Ad

    DELTA-P                    8.6     3.1     0.1   -1.3   -1.3     1.1   -1.0      7.5*  -1.2*   -1.4   -1.9    0.7    1.4      2.8    3.8   -0.9    2.4    0.1   -2.1   -1.8
    STD ERR OF DP                      1.6     1.5    1.2    1.3     0.9    0.8      3.2    0.5     1.4    1.6    1.3    1.6      2.7    4.4    0.9    2.9    2.3    2.6    1.7
    STD ERR OF P               0.8     1.9     1.8    1.4    1.4     1.4    1.0      3.4    0.8     1.5    1.7    1.7    1.9      2.8    4.8    1.1    3.1    2.3    2.8    1.6

RESPONSE:  04    AGE:  9        TEXT:  15

    DELTA-P                   36.6     7.3*    0.7   -2.9   -4.2    -0.9    0.9     13.5*  -2.8*   10.0    5.1    4.4   -2.1      9.0    3.3    3.2    0.7   -4.2   -4.9   -6.3
    STD ERR OF DP                      2.8     2.4    2.5    2.7     1.1    1.1      2.8    0.6     5.8    5.8    2.5    1.9      5.6    4.5    2.3    4.3    3.0    3.5    4.4
    STD ERR OF P               1.5     3.2     2.8    2.9    3.1     1.8    2.0      3.0    1.6     5.7    5.9    2.8    2.5      5.8    4.6    2.6    4.6    3.1    3.8    5.0

                 AGE: 13

    DELTA-P                   10.3     4.2     0.6   -1.6   -2.4     0.6   -0.7     12.4*  -2.5*    8.6*   5.7   -2.4*  -3.5*     9.6*   2.4    0.0    1.3   -2.5   -4.2*  -4.8*
    STD ERR OF DP                      2.4     1.6    1.7    1.4     0.7    0.8      2.1    0.6     3.4    3.0    1.0    1.0      2.7    2.8    1.5    2.4    2.1    1.7    2.0
    STD ERR OF P               1.0     2.8     1.9    2.0    1.3     1.1    1.1      2.2    1.0     3.9    3.4    1.1    1.0      2.7    3.2    2.0    2.6    2.2    1.6    2.1

                 AGE: 17

    DELTA-P                    4.7     2.5*   -0.4    0.1   -1.8*    0.2   -0.2      5.4*  -1.6*    5.4*   6.3*  -0.6   -2.7*     3.2   -1.7   -0.5    1.3    0.4   -0.2   -1.4
    STD ERR OF DP                      1.1     0.7    0.9    0.8     0.5    0.5      2.2    0.4     1.4    2.1    0.6    0.4      2.2    1.1    0.6    1.4    1.6    1.3    1.0
    STD ERR OF P               0.5     1.2     0.7    1.1    1.0     0.7    0.7      2.5    0.4     1.6    2.4    0.7    0.4      2.5    1.1    0.7    1.5    1.7    1.5    1.0

                 AGE: Ad

    DELTA-P                   10.2     1.8    -2.7*   0.3    0.9    -0.0    0.0      7.9*  -1.0*    0.5    1.6    1.2   -4.6*     8.1*   2.3   -0.0    1.2   -3.6   -1.2   -4.5*
    STD ERR OF DP                      1.0     1.0    1.3    1.4     0.8    0.8      3.4    0.5     1.5    1.7    1.0    1.4      3.7    1.6    0.9    2.4    2.0    1.8    1.7
    STD ERR OF P               0.7     1.0     1.0    1.7    1.7     1.0    1.2      3.8    0.7     1.5    1.9    1.5    1.3      3.9    1.6    1.1    2.5    2.1    1.8    1.7

RESPONSE:  09    AGE:  9        TEXT:  I Don't Know.

    DELTA-P                   25.4    -2.0    -2.0   -1.3    5.1    -2.5*   2.5*   -10.5*   2.0*   -4.5  -13.7*  -6.0*   0.5    -12.9*  -5.0   -1.6    2.0    5.3   -4.2   10.9*
    STD ERR OF DP                      2.5     2.0    2.2    2.6     1.1    1.1      2.1    0.5     4.3    3.4    1.6    2.1      2.6    3.3    1.9    3.6    4.1    2.7    4.0
    STD ERR OF P               1.4     2.8     2.0    2.6    3.2     1.6    1.9      2.1    1.5     4.4    3.2    2.1    2.6      2.4    3.2    1.9    3.7    4.4    3.3    4.7

                 AGE: 13

    DELTA-P                    5.5    -1.0     2.1    0.5   -1.8     1.1*  -1.1*    -0.5   -0.3     3.3   -2.3   -0.4   -2.4*     5.8    0.1   -1.1   -1.6    1.4   -0.4   -0.5
    STD ERR OF DP                      1.2     1.2    1.2    1.1     0.5    0.5      1.2    0.3     2.2    1.5    0.9    0.6      3.7    1.4    0.9    1.3    2.0    1.4    2.0
    STD ERR OF P               0.7     1.3     1.4    1.4    1.2     0.9    0.7      1.1    0.8     2.6    1.6    1.1    0.6      3.9    1.5    1.0    1.3    2.0    1.6    2.1
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                              NATION |              REGION                |     SEX        |     RACE        |     PARENTAL EDUCATION          |              SIZE-AND-TYPE OF COMMUNITY
                                     | SOUTH                       NORTH  |                |                 |           SOME    GRAD   POST  |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                              _______|__EAST___WEST_CENTRAL__EAST_|__MALE__FEMALE_|_BLACK__WHITE__|_NO HS___HS_____HS_____HS__|_METRO__RURAL__PLACES__CITY_BIG CTY FRINGE_METRO_

EXERCISE: RA05

Which one of the following numbers is a PRIME number?


RESPONSE:  09    AGE: 17       TEXT:  I Don't Know.

    DELTA-P                    5.2       2.6*  -1.7*  -0.6    0.1      0.9   -0.8      1.9   -0.2      5.4#   1.8    0.4   -2.1#    2.8    3.0*   1.3   -1.8   -1.6   -2.0   -1.9
    STD ERR OF DP                        1.2    0.8    0.8    0.9      0.5    0.5      1.3    0.3      1.7    1.6    0.8    0.5     2.0    1.5    0.8    1.3    1.1    1.1    1.1
    STD ERR OF P               0.5       1.4    0.9    0.8    1.1      0.7    0.7      1.5    0.5      1.8    1.8    1.0    0.5     2.1    1.5    1.1    1.3    1.2    1.2    1.0

                   AGE: A4

    DELTA-P                   37.8      -1.3   -1.9    2.4    0.3     -4.0#   3.7#    -9.4*   1.6#     4.3    0.6   -2.1   -2.2    -4.5    4.5    3.1   -3.7   -1.2   -4.8   -0.5
    STD ERR OF DP                        2.0    2.0    2.8    2.3      1.3    1.2      3.9    0.6      2.6    2.6    1.8    2.4     4.0    4.3    1.6    3.6    3.8    3.4    4.0
    STD ERR OF P               1.4       1.9    2.0    3.9    2.5      1.9    1.9      4.1    1.5      2.9    3.1    2.3    2.8     4.3    4.3    2.1    4.1    4.0    3.6    4.1
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RA06
OBJ I

Counting by 10's, what number comes next?

10, 20, 30, ____

ANSWER ______________________

Report #: RA06

NAEP #: A21011-1

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		Age: 9
Package-Exercise:		03-18
National P-value:		
	RA06	93.78

Timing: (in seconds)

	Stimulus:	6
	Response:	12
RA06	Exercise total:	18

SCORING GUIDE
RA06
A21011-1

00 = No Response

10 = 40; 10,20,30,40

11 = Any response by 10's beginning with 40: e.g., 40,50

20 = Other Unacceptable

21 = 20

39 = I Don't Know.

EXERCISE: RA06

Counting by 10's, what number comes next? 10, 20, 30, ...

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.3	0.1	0.2	-0.2	-0.0	0.2	-0.2	0.5	-0.1	0.2	-0.3*	-0.3*	-0.3	0.5	-0.3*	0.2	-0.2	-0.1	-0.1	-0.3*
STD ERR OF DP		0.3	0.3	0.2	0.2	0.1	0.1	0.4	0.1	0.5	0.1	0.1	0.2	0.4	0.1	0.2	0.2	0.3	0.3	0.1
STD ERR OF P	0.1	0.3	0.4	0.1	0.2	0.3	0.1	0.5	0.2	0.6	0.0	0.0	0.1	0.5	0.0	0.3	0.2	0.3	0.2	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	93.8	-1.3	-2.1	1.9*	1.3	-1.3*	1.4*	-3.6*	1.2*	-17.6*	-0.4	2.3*	2.7*	-6.9*	-0.2	-0.1	2.2	0.3	-0.2	2.7*
STD ERR OF DP		1.3	1.4	1.0	1.0	0.6	0.7	1.6	0.4	5.3	2.1	0.9	0.7	2.9	1.8	0.9	1.2	1.5	1.6	1.3
P-VALUE	93.8	92.5	91.7	95.7	95.0	92.4	95.2	90.2	94.9	76.2	93.4	96.0	96.4	86.8	93.5	93.7	95.9	94.0	93.6	96.5
STD ERR OF P	0.7	1.4	1.7	1.0	0.9	1.1	0.8	1.8	0.8	5.6	2.2	0.8	0.6	3.1	1.8	1.3	1.1	1.6	1.7	1.2
RESPONSE: 10 AGE: 9 TEXT: 40; 10, 20, 30, 40																				
DELTA-P	93.6	-1.1	-2.6	2.1*	1.4	-1.3	1.4	-3.4*	1.1*	-17.4*	-0.2	2.1*	2.8*	-6.8*	-0.1	-0.3	2.3	0.4	-0.0	2.9*
STD ERR OF DP		1.3	1.4	1.0	1.0	0.7	0.7	1.7	0.4	5.3	2.1	0.9	0.7	2.9	1.8	1.0	1.2	1.6	1.6	1.2
STD ERR OF P	0.7	1.4	1.9	1.0	0.9	1.1	0.9	1.8	0.8	5.6	2.2	0.9	0.6	3.1	1.8	1.4	1.1	1.6	1.7	1.2
RESPONSE: 11 AGE: 9 TEXT: Any response by 10's beginning with 40; e.g., 40, 50																				
DELTA-P	0.2	-0.2	0.5	-0.2	-0.2	-0.1	0.1	-0.2	0.0	-0.2	-0.2	0.1	-0.2	-0.2	-0.2	0.3	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.5	0.0	0.0	0.1	0.2	0.0	0.2	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
RESPONSE: 20 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	1.0	0.2	0.3	-0.3	-0.2	0.1	-0.1	1.4	-0.4*	2.4*	1.4	-0.9*	0.0	1.6	0.4	-0.2	0.1	-0.5	-0.7*	0.4
STD ERR OF DP		0.4	0.4	0.3	0.3	0.2	0.2	0.8	0.2	1.4	1.4	0.2	0.3	1.1	0.7	0.3	0.5	0.4	0.3	0.6
STD ERR OF P	0.2	0.4	0.5	0.3	0.3	0.3	0.3	0.9	0.2	1.5	1.4	0.1	0.4	1.1	0.7	0.4	0.5	0.3	0.2	0.7
RESPONSE: 21 AGE: 9 TEXT: 20																				
DELTA-P	4.5	0.8	1.3	-1.1	-0.9	0.8	-0.9	2.0	-0.7*	15.0*	-0.3	-0.8	-2.0*	4.9	0.6	-0.3	-1.7	0.7	0.7	-2.4*
STD ERR OF DP		1.0	1.1	0.8	0.8	0.5	0.5	1.4	0.3	5.8	1.5	0.8	0.5	2.7	1.6	0.7	1.1	1.5	1.4	1.0
STD ERR OF P	0.5	1.1	1.4	0.9	0.8	0.9	0.6	1.5	0.6	6.0	1.8	0.8	0.5	2.9	1.6	0.9	1.0	1.6	1.6	0.9
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	0.4	0.1	0.4	-0.4*	-0.2	0.2	-0.2	-0.4*	0.0	-0.4*	-0.4*	-0.3	-0.4*	-0.0	-0.4*	0.4	-0.4*	-0.4*	0.3	-0.4*
STD ERR OF DP		0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.3	0.2
STD ERR OF P	0.2	0.4	0.6	0.0	0.2	0.3	0.1	0.0	0.2	0.0	0.0	0.1	0.0	0.3	0.0	0.5	0.0	0.0	0.3	0.0

RA07
OBJ III

Which one of the following is the sum of three hundreds, eight tens, and four ones?

○ 15
● 384
○ 300,804

○ I don't know.

Report #: RA07

NAEP #: A21016-12

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		9	13
Age:			
Package-Exercise:		04-33	09-13
National P-value:			
	RA07	73.81	91.36

Timing: (in seconds)			
	Stimulus:	9	10
	Response:	31	31
	I don't know:	5	5
	Pause:	6	6
RA07	Exercise total:	51	52

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                                 NATION |           REGION              |      SEX       |     RACE       |       PARENTAL EDUCATION        |          SIZE-AND-TYPE OF COMMUNITY
                                        | SOUTH                  NORTH  |                |                |          SOME    GRAD    POST  |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                                 _______|_EAST___WEST_CENTRAL__EAST___|__MALE__FEMALE__|_BLACK__WHITE___|_NO HS___HS______HS______HS____|_METRO__RURAL__PLACES__CITY_BIG CTY_FRINGE_METRO

EXERCISE: RA07

Which one of the following is the sum of three hundreds, eight tens, and four ones?


RESPONSE:  00    AGE:  9          TEXT:  No Response.

    DELTA-P                      0.3     -0.1    0.1   -0.3#   0.4     0.0   -0.0     1.1*  -0.2*   -0.3#   0.5   -0.0   -0.2     0.1    0.3   -0.3#  -0.3#   0.9    0.1   -0.0
    STD ERR OF DP                         0.2    0.2    0.1    0.3     0.1    0.1     0.5    0.1     0.1    0.8    0.2    0.1     0.3    0.4    0.1    0.1    0.6    0.3    0.2
    STD ERR OF P                 0.1      0.2    0.2    0.0    0.3     0.2    0.2     0.6    0.1     0.0    0.8    0.2    0.1     0.3    0.4    0.0    0.0    0.7    0.3    0.2

                 AGE: 13

    DELTA-P                      0.3      0.0   -0.1    0.2   -0.1     0.2   -0.2     0.2   -0.1    -0.3#   0.1    0.2   -0.3#    0.2   -0.0   -0.1    0.8   -0.2   -0.1   -0.3#
    STD ERR OF DP                         0.2    0.1    0.2    0.1     0.1    0.1     0.3    0.1     0.1    0.4    0.2    0.1     0.4    0.2    0.1    0.5    0.1    0.2    0.1
    STD ERR OF P                 0.1      0.2    0.1    0.3    0.1     0.2    0.1     0.3    0.1     0.0    0.4    0.2    0.0     0.4    0.2    0.1    0.6    0.1    0.1    0.0

RESPONSE:  01    AGE:  9          TEXT:  15

    DELTA-P                      1.9      1.4*  -0.7   -0.3   -0.4    -0.1    0.1     2.2#  -0.7#    1.1    0.5    0.1   -0.7    -0.2    2.1   -0.6   -0.2    2.2    0.1   -1.2*
    STD ERR OF DP                         0.7    0.5    0.5    0.4     0.2    0.2     0.7    0.2     1.4    0.8    0.6    0.4     0.7    1.2    0.3    0.8    1.6    0.7    0.5
    STD ERR OF P                 0.3      0.9    0.6    0.6    0.4     0.4    0.4     0.8    0.3     1.5    0.8    0.7    0.4     0.7    1.3    0.3    0.9    1.7    0.7    0.5

                 AGE: 13

    DELTA-P                      0.5     -0.0    0.2   -0.2    0.0     0.0   -0.0     0.9   -0.2*    0.8   -0.5#  -0.2    0.0     0.7    0.4   -0.3    0.2    0.6   -0.4   -0.1
    STD ERR OF DP                         0.3    0.3    0.3    0.2     0.1    0.2     0.7    0.1     0.8    0.2    0.2    0.2     0.6    0.6    0.2    0.4    0.5    0.2    0.5
    STD ERR OF P                 0.2      0.3    0.4    0.3    0.2     0.2    0.2     0.8    0.1     0.8    0.0    0.2    0.2     0.7    0.6    0.2    0.5    0.6    0.1    0.5

RESPONSE:  02*   AGE:  9          TEXT:  384

    DELTA-P                     73.8     -4.3   -2.6    2.4    3.9*   -1.2    1.1   -24.2#   5.3#   -6.9   -0.9    0.6    7.1#  -16.9#  -7.8#   1.3    0.5   -5.1    5.5*   9.5#
    STD ERR OF DP                         2.3    2.1    2.1    1.9     1.1    1.1     2.8    0.7     3.5    5.4    2.2    1.5     3.8    3.0    1.5    2.8    3.4    2.6    2.6
    P-VALUE                     73.8     69.5   71.2   76.2   77.7    72.6   74.9    49.6   79.2    66.9   72.9   74.4   80.9    56.9   66.0   75.1   74.4   68.7   79.3   83.3
    STD ERR OF P                 1.2      2.6    2.3    2.7    2.0     1.8    1.4     2.8    1.2     3.7    5.5    2.5    1.9     3.8    2.9    1.7    3.3    3.6    2.8    2.8

                 AGE: 13

    DELTA-P              [illegible] [illegible] -1.4   2.9#   2.6#   -0.7    0.8   -13.8#   2.5#   -7.2   -2.2    1.0    3.2#  -10.4#  -2.7    0.7   -2.1   -0.6    2.3    5.7#
    STD ERR OF DP                         1.4    1.0    1.0    1.0     0.6    0.7     2.6    0.5     4.1    1.7    0.9    0.8     1.7    2.7    1.0    1.4    1.8    1.4    1.2
    P-VALUE              [illegible] [illegible] 89.9   94.3   94.0    90.6   92.2    77.5   93.8    84.2   89.2   92.4   94.6    80.9   88.6   92.0   89.2   90.8   93.6   97.1
    STD ERR OF P         [illegible] [illegible]  1.2    1.1    1.1     0.9    0.9     2.6    0.8     4.4    1.8    1.0    0.8     1.7    2.9    1.1    1.4    2.0    1.4    1.1

RESPONSE:  03    AGE:  9          [illegible]

    DELTA-P              [illegible] [illegible] [illegible] -0.9 -3.8*  1.5  -1.4    15.5#  -3.3#    7.1*   4.1    1.4   -3.5#   12.4#   7.1#  -1.6    2.0    0.2   -4.8#  -5.2*
    STD ERR OF DP                    [illegible]  1.7  [illegible] 1.5   1.0    1.0     2.5    0.6     3.4    5.4    1.8    1.3     2.5    2.2    1.2    2.5    2.8    1.8    2.2
    STD ERR OF P         [illegible] [illegible] [illegible] [illegible] 1.5  1.6  1.3   2.7    1.0     3.4    5.6    2.2    1.6     2.6    2.1    1.4    2.9    3.0    1.9    2.3

                 AGE: 13

    DELTA-P                      6.9      4.6#   1.0   -2.9#  -2.5#    0.2   -0.2    11.8#  -2.0#    6.1    2.5   -0.8   -2.6#   10.0#   2.7    0.0   -0.1    0.9   -2.5   -5.1#
    STD ERR OF DP                         1.2    0.9    0.8    0.9     0.6    0.6     2.6    0.4     4.1    1.6    0.8    0.6     2.1    2.8    0.9    1.1    1.8    1.4    0.9
    STD ERR OF P                 0.6      1.5    0.9    0.8    1.1     0.8    0.8     2.6    0.7     4.3    1.6    1.0    0.7     2.2    3.0    1.0    1.0    1.9    1.4    0.8

RESPONSE:  09    AGE:  9          TEXT:  I Don't Know.

    DELTA-P                      5.9     -0.7    2.0   -0.9   -0.1    -0.2    0.2     5.4#  -1.2#   -1.1   -4.2#  -2.0*  -2.8#    4.6   -1.7    1.2   -2.0*   1.9   -0.9   -3.1#
    STD ERR OF DP                         0.9    1.4    0.9    1.0     0.5    0.4     1.3    0.3     1.6    1.0    0.9    0.7     2.5    1.3    0.9    0.9    1.6    1.4    1.0
    STD ERR OF P                 0.6      0.9    1.7    1.0    1.0     0.7    0.8     1.4    0.7     1.6    0.9    0.9    0.8     2.5    1.3    1.3    0.9    1.6    1.5    0.9

                 AGE: 13

    DELTA-P                      0.9     -0.3    0.3    0.0   -0.0     0.4*  -0.4*    1.0   -0.2     0.6    0.1   -0.2   -0.4    -0.5   -0.3   -0.3    1.3*  -0.7*   0.7   -0.3
    STD ERR OF DP                         0.3    0.3    0.3    0.3     0.2    0.2     0.8    0.1     0.8    0.7    0.3    0.2     0.4    0.4    0.2    0.5    0.3    0.7    0.5
    STD ERR OF P                 0.2      0.3    0.4    0.3    0.3     0.3    0.2     0.8    0.2     0.8    0.7    0.2    0.2     0.4    0.4    0.3    0.6    0.3    0.7    0.5
```

RA08
OBJ I

If n is an odd number, what can you say about n + 1?

○ It is always odd.
● It is always even.
○ It is even or odd depending upon what n is.

○ I don't know.

Report #: RA08

NAEP #: A21032-23

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		06-25	04-23
National P-value:			
	RA08	51.23	72.24

Timing: (in seconds)

		13	17
	Stimulus:	14	14
	Response:	21	21
	I don't know:	5	5
	Pause:	6	6
RA08	Exercise total:	46	46

```
                          NATION              REGION                  SEX            RACE                PARENTAL EDUCATION                            SIZE-AND-TYPE OF COMMUNITY
                                 SOUTH                   NORTH                                            SOME    GRAD    POST     LOW EXTREME   SMALL  MEDIUM    MAIN   URBAN    HIGH
                                  EAST    WEST CENTRAL    EAST    MALE  FEMALE   BLACK   WHITE   NO HS      HS      HS      HS   METRO   RURAL  PLACES    CITY BIG CTY  FRINGE   METRO

EXERCISE: NA08

If n is an odd number, what can you say about n + 1?

RESPONSE:  00    AGE: 13         TEXT:  No Response.

    DELTA-P                  0.7    -0.7     1.3    -0.2    -0.6    -0.0     0.0     3.5    -0.4    -0.7     0.4   -0.4*    -0.2     4.6    -0.2    -0.7     0.6     0.1    -0.7    -0.7
    STD ERR OF DP                    0.4     1.3     0.5     0.5     0.1     0.1     2.8     0.4     0.4     0.4     0.2     0.1     5.0     0.6     0.4     0.9     0.7     0.4     0.4
    STD ERR OF P             0.4     0.0     1.7     0.3     0.2     0.4     0.5     3.2     0.1     0.0     0.7     0.3     0.4     5.4     0.4     0.0     0.9     0.5     0.0     0.0

                 AGE: 17

    DELTA-P                  0.7    -0.5    -0.6     0.8     0.0     0.1    -0.1    -0.0     0.1    -0.8    -0.8     0.4    -0.4     1.2    -0.8    -0.6    -0.8    -0.8     1.7     0.7
    STD ERR OF DP                    0.4     0.4     0.9     0.5     0.1     0.1     0.7     0.1     0.4     0.4     0.4     0.2     1.0     0.4     0.4     0.4     0.4     1.9     1.2
    STD ERR OF P             0.4     0.2     0.2     1.3     0.5     0.4     0.4     0.7     0.5     0.0     0.0     0.7     0.3     1.1     0.0     0.1     0.0     0.0     2.3     1.3

RESPONSE:  01    AGE: 13         TEXT:  It is always odd.

    DELTA-P                  6.8     2.3    -0.6    -1.2    -0.1     0.9    -0.8    3.7*    -0.4     2.7     2.3     1.0   -2.5#     2.8     0.3    -0.6     0.7    -0.9     1.4    -2.0
    STD ERR OF DP                    1.2     0.9     0.9     1.3     0.7     0.6     1.7     0.2     2.4     2.2     1.0     0.7     1.7     1.4     0.9     1.4     1.8     2.0     1.4
    STD ERR OF P             0.6     1.4     0.9     0.9     1.6     1.0     0.7     1.9     0.6     2.5     2.4     1.2     0.7     1.7     1.4     1.0     1.5     1.9     2.2     1.5

                 AGE: 17

    DELTA-P                  5.0    2.3*    -0.7    -0.5    -0.6   -1.3#    1.3#    8.4#   -1.3#     3.7    3.8*     1.0   -2.8#    5.7*    -0.1     0.8   -1.9*    -0.9    -0.1   -2.9#
    STD ERR OF DP                    1.1     1.0     1.0     0.9     0.5     0.5     1.9     0.3     2.3     1.6     0.8     0.5     2.6     2.2     0.8     0.8     1.3     1.2     1.1
    STD ERR OF P             0.6     1.3     1.1     1.2     1.0     0.6     0.8     2.1     0.6     2.4     1.7     1.2     0.4     2.9     2.4     0.9     0.7     1.3     1.5     0.9

RESPONSE:  02*   AGE: 13         TEXT:  It is always even.

    DELTA-P                 51.2   -6.7*    -3.8     3.6     5.8     0.5    -0.5  -30.7#    5.3#  -15.8#  -16.0#    -2.3   13.2#  -17.5#    -5.4    -0.2    -2.0    -2.5     5.0   13.2#
    STD ERR OF DP                    3.2     3.0     3.4     2.9     1.1     1.0     2.7     0.6     5.3     3.8     1.8     1.6     5.5     6.9     2.5     5.3     3.3     4.2     3.4
    P-VALUE                 51.2    44.6    47.5    54.8    57.1    51.7    50.8    20.5    56.6    35.5    35.2    48.9    64.4    33.7    45.8    51.1    49.2    48.7    56.2    64.4
    STD ERR OF P             1.8     3.1     3.3     4.4     3.2     2.1     2.2     2.8     2.0     5.7     4.2     2.6     2.0     5.2     7.6     3.2     5.9     2.8     4.5     3.4

                 AGE: 17

    DELTA-P                 72.2  -11.8#     2.4    -0.4    7.3#     1.9    -2.0  -31.9#    5.4#  -23.1#  -20.4#    -0.2   10.6#  -24.0#    -7.4     0.9    5.8*     5.2     0.6    8.4#
    STD ERR OF DP                    2.7     2.0     2.5     2.2     1.1     1.2     2.8     0.9     4.1     3.3     1.4     1.2     3.2     4.4     2.2     2.8     3.7     2.9     2.1
    P-VALUE                 72.2    60.4    74.6    71.8    79.5    74.2    70.3    40.4    77.6    49.1    51.8    72.0    82.9    48.2    64.9    73.1    78.1    77.5    72.9    80.6
    STD ERR OF P             1.4     3.0     2.0     3.2     2.5     1.9     1.8     3.1     1.2     4.4     3.5     2.1     1.5     3.5     4.3     2.5     2.9     4.0     3.2     2.0

RESPONSE:  03    AGE: 13         TEXT:  It is even or odd depending upon what n is.

    DELTA-P                 39.3     5.2     2.6    -1.8   -5.4*    -1.5     1.4   21.7#   -4.1#   11.4#   14.7#     1.6   -9.6#     8.0     4.7     2.2    -0.7     3.5    -4.7  -10.5#
    STD ERR OF DP                    3.5     2.7     2.9     2.4     1.1     1.1     4.0     0.7     4.5     3.3     2.0     1.3     5.0     5.8     2.4     4.7     3.6     3.3     2.9
    STD ERR OF P             1.7     4.1     3.0     3.6     2.4     2.0     2.0     4.5     1.7     4.7     3.8     2.7     1.8     4.9     6.2     3.1     5.4     3.5     3.5     2.7

                 AGE: 17

    DELTA-P                 20.7   10.2#    -0.7    -0.2   -6.8#    -0.9     0.9   23.1#   -4.1#   18.8#   16.5#    -1.3   -6.8#   16.4#     5.4    -0.1    -3.1    -2.9    -2.5   -6.4#
    STD ERR OF DP                    2.4     1.7     2.2     1.5     0.9     1.0     2.9     0.8     3.6     3.0     1.2     1.1     3.4     3.4     1.7     2.5     3.7     2.4     1.8
    STD ERR OF P             1.2     2.7     1.6     3.0     1.4     1.5     1.4     3.3     0.9     3.8     3.1     1.9     1.3     3.7     3.4     1.9     2.6     4.1     2.6     1.6

RESPONSE:  09    AGE: 13         TEXT:  I Don't Know.

    DELTA-P                  2.0    -0.1     0.5    -0.4     0.2     0.1    -0.1     1.9   -0.4*     2.3   -1.4#     0.1   -0.8*     2.1     0.7   -0.8*     1.4    -0.2    -1.0     0.0
    STD ERR OF DP                    0.6     0.6     0.5     0.6     0.3     0.3     1.3     0.2     1.7     0.5     0.5     0.3     1.6     1.1     0.4     0.8     1.0     0.6     1.0
    STD ERR OF P             0.3     0.7     0.8     0.5     0.7     0.4     0.4     1.3     0.3     1.9     0.4     0.6     0.3     1.7     1.2     0.5     0.8     1.0     0.6     1.0

                 AGE: 17

    DELTA-P                  1.3    -0.1    -0.4     0.3     0.1     0.1    -0.1     0.5    -0.0    1.3*     0.9     0.1    -0.6     0.7    2.8#   -0.9#    -0.1    -0.6     0.3     0.1
    STD ERR OF DP                    0.4     0.3     0.4     0.4     0.3     0.3     0.7     0.1     0.6     0.9     0.4     0.3     0.7     1.1     0.3     0.6     0.5     0.7     0.8
    STD ERR OF P             0.2     0.4     0.2     0.6     0.4     0.4     0.3     0.8     0.3     0.6     1.0     0.5     0.3     0.8     1.2     0.2     0.7     0.5     0.7     0.9
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RA09
OBJ II

What is the SMALLEST number that is divisible by 6, 9, and 12?

ANSWER ____________________

```
Report #:       RA09

NAEP #:         A21033-23

Content Area:   A. NUMBER AND NUMERATION CONCEPTS

Objective:     II. Perform Mathematical Manipulations.

Exercise Type:          Short answer
Scoring Type:           Semi-professional
Administration Mode:    Group

Age:                                          _13__    _17__
Package-Exercise:                             01-09    03-01
National P-value:
                        RA09                  20.91    38.54

Timing: (in seconds)
                       Stimulus:                 5        5
                       Response:                51       51
   RA09          Exercise total:                56       56
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SCORING GUIDE
RA09
A21033-23

00 = No Response

10 = 36

20 = 3

21 = Other Unacceptable

22 = 6

23 = 1

39 = I Don't Know.

EXERCISE: RA09

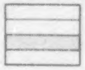
What is the SMALLEST number that is divisible by 6, 9, and 12?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.5	-0.5*	0.2	-0.2	0.5	-0.2	0.2	0.1	-0.0	0.7	-0.5*	-0.3	-0.1	0.5	-0.1	-0.2	-0.3	1.0	0.1	-0.5*
STD ERR OF DP		0.2	0.4	0.2	0.6	0.2	0.2	0.3	0.1	1.0	0.2	0.2	0.1	0.7	0.4	0.2	0.3	1.1	0.5	0.2
STD ERR OF P	0.2	0.0	0.4	0.2	0.7	0.1	0.4	0.3	0.3	1.2	0.0	0.1	0.2	0.7	0.3	0.2	0.2	1.2	0.6	0.0
AGE: 17																				
DELTA-P	0.7	-0.1	-0.3	0.1	0.3	0.3*	-0.3	0.8	-0.2	-0.7#	0.4	-0.1	-0.2	-0.1	0.1	-0.5*	-0.7#	0.8	0.8	0.2
STD ERR OF DP		0.4	0.3	0.3	0.4	0.2	0.2	0.7	0.1	0.2	0.6	0.3	0.2	0.4	0.5	0.2	0.2	1.0	0.6	0.7
STD ERR OF P	0.2	0.4	0.2	0.4	0.5	0.4	0.2	0.8	0.2	0.0	0.6	0.3	0.3	0.4	0.5	0.1	0.0	1.1	0.7	0.8
RESPONSE: 10* AGE: 13	TEXT: 36																			
DELTA-P	20.9	-6.2#	3.2	1.5	0.4	2.1*	-2.2*	-16.0#	3.7#	-10.8#	-10.1#	-2.3	9.6#	-16.1#	-4.2	-0.2	2.4	0.3	-0.9	8.8*
STD ERR OF DP		1.9	2.5	2.0	2.3	1.0	1.0	1.9	0.6	2.2	2.9	1.4	1.1	2.0	4.0	2.1	2.4	4.0	2.7	4.3
P-VALUE	20.9	14.7	24.1	22.4	21.3	23.1	18.7	4.9	24.6	10.2	10.9	18.7	30.5	4.9	16.7	20.7	23.3	21.2	20.0	29.7
STD ERR OF P	1.3	1.8	2.9	2.5	2.7	1.5	1.7	1.7	1.4	2.4	2.7	1.6	2.0	1.5	4.4	2.6	2.3	4.4	2.3	4.6
AGE: 17																				
DELTA-P	38.5	-5.0	2.6	-3.6	6.2*	4.2#	-4.1#	-27.7#	5.3#	-21.4#	-6.8*	-0.7	8.7#	-25.3#	-12.4#	7.5#	0.9	-13.9#	5.2	10.9*
STD ERR OF DP		3.0	3.0	2.5	2.8	1.1	1.1	2.6	0.9	2.4	3.3	2.1	1.6	3.7	4.0	2.4	4.4	5.2	3.2	4.6
P-VALUE	38.5	33.5	41.2	34.9	44.7	42.7	34.4	10.9	43.8	17.2	31.7	37.8	47.3	13.3	26.2	46.0	39.4	24.7	43.7	49.4
STD ERR OF P	1.6	3.3	3.3	3.0	3.4	2.1	1.8	2.2	1.9	2.5	3.4	2.6	2.4	3.3	4.0	2.9	4.7	5.6	3.0	5.1
RESPONSE: 20 AGE: 13	TEXT: 3																			
DELTA-P	55.3	4.3	-7.6*	2.4	0.6	-4.6#	4.7#	12.0#	-1.2	-8.7	12.8#	3.4	-3.8#	8.2	-8.3	0.7	0.6	-1.7	2.8	-0.7
STD ERR OF DP		3.0	3.1	2.8	2.9	1.3	1.3	3.0	0.9	5.3	4.2	1.8	1.4	5.2	7.7	2.3	2.9	4.9	3.7	3.6
STD ERR OF P	1.7	3.3	3.6	3.5	3.3	2.2	2.1	3.1	1.9	5.4	4.3	2.4	2.3	5.3	8.6	3.0	2.6	5.4	3.4	3.7
AGE: 17																				
DELTA-P	47.9	2.4	-2.9	4.0	-4.2	-5.9#	5.8#	20.3#	-3.8#	14.6#	8.4#	2.5	-8.0#	24.1#	5.8	-5.0*	1.7	12.4*	-6.6	-10.4#
STD ERR OF DP		2.7	2.7	2.6	2.5	1.3	1.2	3.0	0.8	4.0	3.3	1.9	1.7	3.7	3.7	2.3	4.9	5.9	3.6	[illegible]
STD ERR OF P	1.5	2.9	2.9	3.4	2.7	1.8	2.1	2.9	1.8	4.5	3.7	2.3	2.4	3.2	3.6	2.7	5.4	6.4	3.7	3.9
RESPONSE: 21 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	9.7	2.0	-0.3	-0.3	-1.1	1.8*	-1.8*	3.8	-1.2#	6.5*	-1.2	-1.3	-1.8*	1.1	4.5	-1.0	-0.1	3.3	-1.0	-3.9#
STD ERR OF DP		1.4	1.5	1.6	1.3	0.8	0.8	2.0	0.4	3.0	2.1	1.1	0.8	3.0	3.2	1.2	1.2	3.1	1.9	1.2
STD ERR OF P	0.9	1.4	1.6	2.2	1.4	1.4	0.9	2.0	1.1	3.3	2.1	1.3	1.2	3.0	3.5	1.4	1.1	3.5	1.8	1.1
AGE: 17																				
DELTA-P	6.7	2.3*	0.7	-0.4	-2.1#	[illegible]	-0.6	1.3	-0.3	1.4	-1.3	-0.5	0.4	-3.0*	3.3	0.4	-0.7	-0.5	0.4	-1.7
STD ERR OF DP		1.1	1.3	0.8	0.8	0.6	[illegible]	1.6	0.3	1.7	1.3	1.0	0.7	1.3	2.2	0.7	1.3	1.6	1.6	1.4
STD ERR OF P	0.6	1.3	1.5	0.9	0.9	0.8	0.8	1.6	[illegible]	2.0	1.3	1.2	0.8	1.3	2.5	0.9	1.3	1.5	1.8	1.5
RESPONSE: 22 AGE: 13	TEXT: 6																			
DELTA-P	4.4	0.4	3.9	-1.7	-1.9	0.5	-0.5	5.1#	-2.2#	10.9	-0.6	-0.4	-2.3#	3.8	7.4	-0.6	0.4	-1.8	-0.8	-3.5#
STD ERR OF DP		1.0	2.4	0.9	1.0	0.5	0.5	1.5	0.8	6.7	1.2	1.0	0.7	2.1	6.5	1.0	1.3	1.4	1.4	0.9
STD ERR OF P	0.8	0.8	3.2	0.6	0.9	0.9	1.1	1.4	0.4	7.4	1.6	0.8	0.5	2.0	7.3	0.7	1.2	1.3	1.2	0.4
AGE: 17																				
DELTA-P	1.0	-0.1	1.0	-0.4	-0.3	-0.1	0.1	2.5	-0.6#	1.9	-0.3	-0.5	-0.5*	2.1*	0.8	-0.5	-0.8#	1.8	-0.8#	-0.2
STD ERR OF DP		0.4	0.5	0.3	0.4	0.2	0.2	1.2	0.2	1.4	0.5	0.3	0.2	0.8	0.7	0.3	0.3	1.5	0.3	0.8
STD ERR OF P	0.2	0.4	0.6	0.3	0.5	0.3	0.4	1.4	0.1	1.5	0.5	[illegible]	0.2	0.9	0.8	0.2	0.2	1.6	0.1	0.8
RESPONSE: 23 AGE: 13	TEXT: 1																			
DELTA-P	7.4	-0.4	-0.3	-0.7	1.5	-0.2	0.2	-3.6#	0.8#	1.2	-0.1	1.0	-0.7	0.8	-0.2	0.8	-2.2	-0.4	-0.1	0.9
STD ERR OF DP		1.5	1.3	1.4	2.0	0.7	0.7	1.2	0.3	2.3	2.0	0.8	0.7	2.8	2.4	1.2	1.4	1.9	1.7	3.5
STD ERR OF P	0.9	1.6	1.2	1.8	2.5	1.0	1.3	1.1	1.1	2.5	2.3	1.3	1.1	2.8	2.6	1.4	[illegible]	2.2	1.7	4.0

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
EXERCISE: 8A09																				
What is the SMALLEST number that is divisible by 6, 9, and 12?																				
RESPONSE: 23 AGE: 17 TEXT: 1																				
DELTA-P	3.7	0.2	-0.5	-0.3	0.6	0.8	-0.8	1.3	-0.2	3.2	-0.6	-1.1	0.4	0.9	2.1	-1.7*	-0.9	-1.1	1.5	1.6
STD ERR OF DP		0.9	1.0	1.1	1.4	0.6	0.6	1.7	0.3	3.0	1.1	0.7	0.7	2.2	2.4	0.7	1.0	1.5	1.7	2.6
STD ERR OF P	0.7	0.8	0.9	1.3	1.8	1.1	0.6	1.9	0.7	3.3	1.2	0.6	1.1	2.4	2.6	0.5	0.9	1.6	1.9	2.9
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	1.9	0.4	0.9	-1.0*	0.0	0.6*	-0.6*	-1.3*	0.1	0.1	-0.4	-0.1	-0.8*	1.7	0.8	0.7	-0.8	-0.6	-0.2	-1.2
STD ERR OF DP		0.5	0.7	0.4	0.5	0.3	0.3	0.5	0.1	0.9	1.1	0.5	0.4	1.6	1.1	0.5	0.6	0.6	0.6	0.6
STD ERR OF P	0.3	0.5	0.9	0.5	0.6	0.5	0.3	0.4	0.4	0.8	1.1	0.6	0.3	1.6	1.2	0.7	0.6	0.6	0.6	0.5
AGE: 17																				
DELTA-P	1.5	0.2	-0.7	0.7	-0.4	-0.0	0.0	1.5	-0.3	1.0	0.2	0.5	-0.8*	1.3	0.0	-0.2	0.4	0.5	-0.6	-0.4
STD ERR OF DP		0.6	0.4	0.6	0.3	0.3	0.3	0.9	0.2	1.8	0.8	0.5	0.4	0.8	1.0	0.5	0.9	1.1	0.5	0.8
STD ERR OF P	0.3	0.6	0.4	0.8	0.2	0.3	0.5	0.9	0.3	2.0	0.9	0.5	0.1	0.8	1.1	0.7	0.9	1.2	0.4	0.8

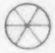
RA10
OBJ III

A. What fractional part of the figure below is shaded?



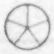
ANSWER ____________________

B. What fractional part of the figure below is shaded?



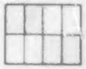
ANSWER ____________________

C. What fractional part of the figure below is shaded?



ANSWER ____________________

D. What fractional part of the figure below is shaded?



ANSWER ____________________

SCORING GUIDE
RA10
A23004-1

Part A. 00 = No Response

10 = 1/4; .25; 25%; a quarter; 1 out of 4

20 = Attempt to name shaded part; e.g., second, 3, rectangle

21 = Other Unacceptable

22 = 1/3; 3/1; 1-3

39 = I Don't Know.

Part B. 00 = No Response

10 = 1/3; .33; 33%; one-third; 2/6; two-sixths; 2 out of six

20 = Attempt to name shaded part; e.g., 2-5, 1-4, triangles

21 = Other Unacceptable

22 = 2/4; 4/2; 4-2; 2-4

39 = I Don't Know.

Report #: RA10

NAEP #: A23004-1

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple part short answer using drawings
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		02-26
National P-value:		
	RA10A	30.80
	RA10B	31.30
	RA10C	30.60
	RA10D	36.70

Timing: (in seconds)

	Stimulus:	5
	Response:	26
RA10A	Part total:	31
	Stimulus:	4
	Response:	26
	Turn page:	(4)
RA10B	Part total:	30**
	Stimulus:	3
	Response:	26
RA10C	Part total:	29
	Stimulus:	4
	Response:	26
RA10D	Part total:	30
RA10	Exercise total:	120

**Time to turn page is not included in total times.

SCORING GUIDE
RA10
A23004-1

Part C. 00 = No Response

10 = 2/5; .40; 40%; 2 out of 5; two-fifths

20 = Attempt to name shaded parts; e.g., left ones, one side, triangles

21 = Other Unacceptable

22 = 2/3; 3/2; 2-3; 3-2

39 = I Don't Know.

Part D. 00 = No Response

10 = 1/2; .50; 50%; a half; 2/4; two quarters; 4/8; 4 out of 8

20 = Attempt to name shaded parts; e.g., 2 half-rows, corner ones, 1,2,7,8, rectangles

21 = Other Unacceptable

22 = 4/4; 4-4; 2/2; 2-2

39 = I Don't Know.

EXERCISE: RA10

Part A. What fractional part of the figure below (a rectangle) is shaded?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.2	0.7	0.6	-0.3	-0.9*	1.2#	-1.2#	2.5#	-0.5#	4.2*	-0.4	-0.3	-1.3#	3.1#	-0.7	-0.1	1.0	0.6	-0.7	-2.1#
STD ERR OF DP		0.6	0.7	0.5	0.4	0.3	0.3	0.8	0.2	1.9	1.0	0.6	0.4	1.1	0.8	0.4	1.0	1.3	0.6	0.3
STD ERR OF P	0.3	0.7	0.8	0.6	0.4	0.5	0.3	0.9	0.3	1.9	1.1	0.7	0.3	1.1	0.9	0.6	1.1	1.3	0.6	0.2
RESPONSE: 10* AGE: 9 TEXT: 1/4; .25; 25%; a quarter; 1 out of 4																				
DELTA-P	30.8	-11.5#	-4.2	2.1	11.7#	-1.5	1.5	-13.4#	3.0#	-8.6*	-0.8	0.7	8.0#	-13.3#	-3.2	-2.5	-1.9	5.2	-2.9	22.1#
STD ERR OF DP		2.6	3.2	4.0	4.3	1.2	1.1	3.3	0.9	3.8	5.1	1.9	2.1	3.7	6.9	3.2	5.4	8.6	5.2	4.6
P-VALUE	30.8	19.3	26.6	32.9	42.5	29.3	32.3	17.4	33.8	22.2	30.0	31.5	38.8	17.5	27.6	28.3	28.9	36.0	28.0	52.9
STD ERR OF P	2.2	1.8	3.1	4.9	5.6	2.6	2.4	3.2	2.5	3.3	5.7	2.8	2.8	3.6	7.3	4.1	5.2	9.0	5.2	4.9
RESPONSE: 20 AGE: 9 TEXT: Attempt to name shaded part; e.g., second; 1; rectangle																				
DELTA-P	46.0	10.5#	-0.4	1.3	-10.3#	1.2	-1.2	2.6	-0.5	2.3	1.0	1.7	-3.9	5.7	7.1	1.2	2.1	-0.6	4.2	-20.0#
STD ERR OF DP		2.7	3.0	3.5	3.5	1.1	1.0	3.5	0.7	4.7	5.0	1.8	2.2	4.0	8.1	3.1	5.5	7.7	5.4	3.8
STD ERR OF P	1.9	2.4	3.1	4.2	4.5	2.1	2.3	3.5	2.2	4.7	5.5	2.7	2.7	4.0	8.6	3.9	5.3	7.7	5.6	3.8
RESPONSE: 21 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	10.2	0.4	2.0	-1.1	-0.9	-0.5	0.5	7.2#	-1.4#	3.3	0.5	-0.8	1.3	3.1	-1.4	0.1	-2.2	-1.4	0.7	0.4
STD ERR OF DP		1.2	2.0	1.5	1.1	0.8	0.8	1.8	0.5	3.6	3.0	1.2	1.2	2.5	1.5	1.2	2.0	2.8	1.7	2.6
STD ERR OF P	0.8	1.3	2.4	1.8	1.0	1.2	1.1	2.1	0.9	3.7	2.9	1.4	1.6	2.6	1.5	1.5	2.1	2.8	1.7	2.9
RESPONSE: 22 AGE: 9 TEXT: 1/3; 3/1; 1-3																				
DELTA-P	3.3	0.7	-0.5	-0.9	0.7	-0.2	0.2	-0.1	0.1	-0.3	1.2	-0.6	-1.0	-2.1#	-2.2#	0.7	0.6	-0.7	-0.0	1.8
STD ERR OF DP		1.2	0.8	0.6	0.9	0.4	0.4	0.8	0.2	1.4	1.9	0.6	0.6	0.7	0.5	0.8	1.0	1.6	0.8	1.8
STD ERR OF P	0.5	1.5	0.8	0.6	1.0	0.6	0.6	1.0	0.5	1.2	2.1	0.7	0.5	0.6	0.3	1.1	1.1	1.7	0.8	2.0
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	7.4	-0.8	2.5	-1.0	-0.4	-0.1	0.1	1.1	-0.7	-0.9	-1.4	-0.5	-3.1#	3.5	0.4	0.7	0.5	-3.1	-1.3	-2.2
STD ERR OF DP		1.2	1.6	1.4	1.3	0.5	0.5	2.1	0.4	2.5	1.9	0.9	0.8	2.4	2.6	1.1	1.9	2.6	1.5	1.5
STD ERR OF P	0.8	1.2	1.8	1.6	1.5	1.0	0.9	2.2	0.9	2.6	1.8	1.2	0.7	2.6	2.9	1.4	2.0	2.6	1.6	1.5

EXERCISE: RA10

Part B. What fractional part of the figure below (a circle) is shaded?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	3.2	2.0	0.0	-0.6	-1.3	1.7#	-1.7#	5.2#	-0.9#	3.1	-0.7	-1.0	-0.9	3.6*	-1.0	-0.3	0.6	0.7	-0.5	-1.6
STD ERR OF DP		1.0	1.0	0.8	0.7	0.5	0.5	1.4	0.3	1.9	1.2	0.6	0.5	1.7	0.8	0.7	1.5	1.2	1.1	0.9
STD ERR OF P	0.5	1.3	1.1	0.9	0.7	1.0	0.3	1.6	0.6	2.0	1.2	0.7	0.7	1.8	0.9	0.9	1.7	1.1	1.2	0.9
RESPONSE: 10* AGE: 9 TEXT: 1/3; .33; 33%; one-third; 2/6; two-sixths; 2 out of six																				
DELTA-P	31.3	-11.4#	-4.3	1.9	11.9#	-1.1	1.1	-15.1#	3.2#	-6.4	0.8	-1.5	7.9#	-14.9#	-3.4	-2.1	-0.4	3.2	-2.9	22.4#
STD ERR OF DP		2.7	3.2	4.1	4.4	1.1	1.1	3.2	0.9	4.6	4.9	1.8	1.9	3.6	6.6	3.2	5.3	8.7	6.0	5.2
P-VALUE	31.3	19.9	27.0	33.2	43.2	30.2	32.4	16.2	34.5	24.9	32.1	29.8	39.2	16.4	27.9	29.2	30.9	34.5	28.4	53.7
STD ERR OF P	2.3	2.0	3.0	5.0	5.7	2.5	2.5	3.0	2.6	4.8	5.7	2.7	2.7	3.4	7.1	4.1	5.2	9.0	6.1	5.5
RESPONSE: 20 AGE: 9 TEXT: Attempt to name shaded parts; e.g., 2-5; 1-4; triangles																				
DELTA-P	27.4	6.2#	0.4	-1.0	-5.0*	0.3	-0.3	6.7*	-1.8#	2.8	3.9	-0.6	-3.2	7.5*	3.3	1.1	-0.1	3.1	0.6	-13.8#
STD ERR OF DP		2.4	2.3	2.2	2.5	1.0	0.9	2.7	0.6	3.7	3.6	1.7	1.8	3.4	4.7	2.0	3.2	5.7	3.4	2.5
STD ERR OF P	1.4	2.6	2.6	2.5	3.2	1.5	1.8	2.9	1.5	3.7	3.8	2.2	2.0	3.6	5.0	2.5	3.2	5.8	3.5	2.2
RESPONSE: 21 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	21.5	4.3*	-1.5	1.5	-4.1#	0.7	-0.7	6.1*	-1.0	1.0	0.5	3.5*	-0.2	4.1	4.2	-0.2	-4.4*	3.3	2.4	-6.7#
STD ERR OF DP		1.8	2.3	2.2	1.5	0.9	0.9	2.9	0.6	3.6	4.4	1.7	1.2	3.6	4.0	1.6	2.2	4.2	2.7	2.7
STD ERR OF P	1.1	1.9	2.7	2.7	1.5	1.5	1.4	3.3	1.1	3.8	4.7	2.1	1.7	4.1	4.4	1.7	2.2	4.5	2.9	2.8

EXERCISE: RA10

Part B. What fractional part of the figure below (a circle) is shaded?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 22 AGE: 9 TEXT: 2/4; 4/2; 4-2; 2-4																				
DELTA-P	3.7	1.1	-0.2	-1.4*	0.5	0.0	0.0	-0.5	0.1	1.6	1.6	0.8	-0.6	-2.8#	-1.2	0.6	0.3	-3.2#	0.7	2.0
STD ERR OF DP		1.0	0.9	0.6	0.9	0.4	0.4	0.9	0.2	2.1	1.9	0.8	0.6	0.7	0.8	0.8	1.5	0.6	1.0	1.7
STD ERR OF P	0.5	1.2	1.0	0.6	1.1	0.7	0.6	1.0	0.5	2.1	2.1	1.0	0.7	0.7	0.8	0.9	1.6	0.4	1.0	1.9
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	12.9	-2.2	5.5*	-0.5	-2.0	-1.6*	1.6*	-2.5	0.3	-2.1	-6.1#	-1.3	-3.0#	2.0	-1.9	1.0	4.0	-7.0#	-0.4	-2.3
STD ERR OF DP		1.5	2.5	1.8	1.7	0.8	0.8	2.1	0.4	3.5	2.3	1.5	1.0	2.5	2.4	1.5	3.4	2.6	3.3	2.5
STD ERR OF P	1.1	1.4	3.1	2.1	2.0	1.4	1.4	2.1	1.3	3.7	2.1	1.9	1.1	2.6	2.7	1.5	3.9	2.7	3.7	2.6

EXERCISE: RA10

Part C What fractional part of the figure below (a circle) is shaded?

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.9	-0.1	0.2	0.4	-0.5	1.2#	-1.1#	2.2*	-0.5#	0.9	-1.0	-0.1	-0.9	4.2#	-2.0#	-0.2	-0.1	2.2	-1.8*	-0.4
STD ERR OF DP		0.9	0.8	0.7	0.8	0.4	0.4	0.9	0.2	1.6	1.0	0.8	0.5	1.6	0.6	0.7	0.9	1.4	0.8	1.0
STD ERR OF P	0.5	1.1	0.8	0.8	0.9	0.8	0.4	1.1	0.5	1.6	0.9	0.9	0.7	1.7	0.5	0.9	0.9	1.4	0.7	1.1
RESPONSE: 10* AGE: 9 TEXT: 2/5; .40; 40%; 2 out of 5; two-fifths																				
DELTA-P	30.6	-11.1#	-4.9	2.6	11.5#	-1.5	1.5	-14.5#	3.2#	-10.1#	-2.8	-1.1	9.5#	-13.6#	-3.4	-2.4	-2.1	2.0	-0.8	20.0#
STD ERR OF DP		2.6	2.9	4.6	4.2	1.0	1.0	3.1	0.9	3.7	4.5	2.0	1.9	3.8	6.3	3.1	5.0	8.7	5.5	4.2
P-VALUE	30.6	19.5	25.7	33.2	42.1	29.1	32.1	16.1	33.8	20.5	27.8	29.5	40.1	17.0	27.2	28.2	30.5	32.6	29.8	50.6
STD ERR OF P	2.2	1.9	2.5	5.0	5.4	2.4	2.4	3.1	2.5	3.3	5.3	2.9	2.7	3.7	6.8	4.2	5.1	9.2	5.6	4.1
RESPONSE: 28 AGE: 9 TEXT: Attempt to name shaded parts; e.g., left ones; one side; triangles																				
DELTA-P	30.2	4.9	1.2	0.1	-5.4*	0.4	-0.4	6.8#	-1.7#	1.9	2.0	0.7	-3.9*	6.2*	4.1	2.3	-5.7	1.4	3.4	-13.7#
STD ERR OF DP		2.5	2.1	2.6	2.7	1.0	0.9	2.6	0.6	4.1	3.8	1.7	1.9	3.1	5.5	2.1	3.2	6.2	4.0	2.8
STD ERR OF P	1.5	2.7	2.0	3.0	3.4	1.6	1.8	2.8	1.6	4.4	4.3	2.2	2.1	3.2	6.0	2.7	3.0	6.4	4.0	2.8
RESPONSE: 21 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	20.9	4.8*	0.0	-0.0	-4.3*	0.9	-0.9	9.7#	-1.8#	5.6	6.0	1.2	-0.2	5.7	4.7	0.5	-0.4	0.4	-2.3	-7.1#
STD ERR OF DP		2.4	1.8	1.9	1.9	1.0	0.9	2.4	0.6	5.2	3.9	1.7	1.5	4.1	3.0	1.4	2.2	4.1	2.0	2.6
STD ERR OF P	1.2	2.9	1.8	2.1	2.3	1.5	1.5	3.0	1.1	5.5	4.4	2.1	1.9	4.5	3.5	1.9	2.2	4.2	1.8	2.7
RESPONSE: 22 AGE: 9 TEXT: 2/3; 3/2; 2-3; 3-2																				
DELTA-P	5.0	1.6	0.3	-2.6#	0.8	0.1	-0.1	-1.2	0.2	3.5	-0.0	-0.2	-1.1	-3.0#	-2.0*	0.3	1.1	-1.3	-0.5	3.5*
STD ERR OF DP		1.1	1.0	0.6	0.9	0.4	0.4	0.9	0.2	3.6	1.8	0.8	0.9	0.8	0.8	0.9	1.6	1.4	1.2	1.7
STD ERR OF P	0.5	1.4	1.1	0.4	1.0	0.7	0.6	1.1	0.6	3.8	2.0	0.8	0.8	0.8	0.8	1.2	1.6	1.4	1.1	1.9
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	10.5	-0.0	3.1	-0.4	-2.1	-1.0	1.0	-3.0	0.6	-1.8	-4.1	-0.5	-3.4#	0.5	-1.4	-0.6	5.1	-4.7	2.0	-2.3
STD ERR OF DP		1.4	1.6	1.7	1.4	0.7	0.7	2.4	0.5	3.2	2.1	1.5	1.0	2.7	2.7	1.2	3.2	3.3	2.7	2.2
STD ERR OF P	0.9	1.5	1.8	2.1	1.5	1.1	1.2	2.6	1.0	3.2	2.0	1.8	0.9	3.0	2.7	1.3	3.6	3.2	2.9	2.2

EXERCISE: RA10

Part D. What fractional part of the figure below (a rectangle) is shaded?

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	3.1	0.2	1.2	-0.9	-0.3	1.3#	-1.2#	2.3*	-0.4*	0.3	-1.0	-0.3	-1.3#	4.4#	0.4	1.2*	1.1	0.7	-1.2	-0.8
STD ERR OF DP		0.6	0.8	0.6	0.7	0.5	0.4	1.0	0.2	1.3	1.1	0.9	0.5	1.4	1.0	0.6	1.6	2.1	0.8	1.0
STD ERR OF P	0.4	0.7	0.9	0.7	0.8	0.7	0.4	1.0	0.5	1.4	1.1	1.0	0.5	1.5	1.0	0.7	1.7	2.2	0.8	1.0

EXERCISE: RA10

Part D. What fractional part of the figure below (a rectangle) is shaded?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 10* AGE: 9	TEXT: 1/2; .50; 50%; a half; 2/4; two quarters; 4/8; 4 out of 8																			
DELTA-P	36.7	-11.8#	-2.2	1.9	10.5#	-0.3	0.3	-18.3#	4.2#	-6.5	-1.9	-1.8	10.0#	-17.8#	-2.4	-1.9	1.4	-1.0	-1.7	22.4#
STD ERR OF DP		2.7	3.4	4.1	4.2	1.2	1.2	3.3	1.0	4.2	4.5	1.9	2.0	3.3	5.8	3.4	4.6	8.4	5.3	4.4
P-VALUE	36.7	24.9	34.6	38.6	47.2	36.4	37.0	18.4	40.9	30.2	34.8	34.9	46.7	18.9	34.3	34.8	38.1	35.7	35.1	59.1
STD ERR OF P	2.3	2.1	3.4	5.1	5.4	2.5	2.6	3.1	2.6	4.5	5.1	2.9	2.6	3.1	6.3	4.5	4.4	8.8	5.4	4.5
RESPONSE: 20 AGE: 9	TEXT: Attempt to name shaded parts; e.g., 2 half rows; corner ones; 1,2,7,8; rectangles																			
DELTA-P	30.6	5.2*	0.3	0.8	-5.7*	0.1	-0.1	8.5#	-2.2#	3.0	7.9	1.0	-4.4*	8.6#	2.4	2.2	-3.5	5.9	0.6	-14.9#
STD ERR OF DP		2.5	2.7	2.8	2.7	0.9	0.9	2.9	0.7	5.5	4.8	1.8	2.1	3.5	5.7	2.1	3.9	6.4	3.9	3.0
STD ERR OF P	1.6	2.6	2.9	3.4	3.3	1.6	2.1	2.9	1.8	5.8	5.0	2.5	2.3	3.6	6.2	2.7	4.0	6.5	3.9	3.0
RESPONSE: 21 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	15.1	5.1*	-0.8	-1.4	-2.5	0.3	-0.3	9.1#	-1.8#	2.0	1.5	0.9	0.0	5.7	3.9	1.3	-6.5#	-0.4	-0.3	-4.7*
STD ERR OF DP		2.3	1.4	1.7	1.5	1.0	0.9	2.0	0.6	2.9	4.1	1.2	1.3	3.1	3.4	1.8	1.7	4.0	2.3	2.2
STD ERR OF P	1.0	2.9	1.3	2.0	1.6	1.4	1.5	3.2	1.0	2.8	4.8	1.8	1.6	3.4	3.6	2.3	1.5	4.2	2.5	2.2
RESPONSE: 22 AGE: 9	TEXT: 4/4; 4-4; 2/2; 2-2																			
DELTA-P	3.8	1.0	-0.6	-0.1	-0.3	-0.1	0.1	1.4	-0.2	2.1	-0.7	0.3	-1.1	-1.4	-2.1#	0.5	1.0	-0.5	-0.2	1.3
STD ERR OF DP		1.4	1.0	0.8	0.8	0.4	0.4	1.1	0.2	1.9	1.6	0.8	0.6	0.9	0.7	0.8	2.1	1.1	1.1	1.7
STD ERR OF P	0.6	1.8	1.1	0.7	0.9	0.7	0.7	1.3	0.6	1.9	1.7	0.9	0.7	0.9	0.5	1.1	2.3	1.0	1.0	1.9
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	10.7	0.3	2.0	-0.3	-1.7	-1.3*	1.2*	-3.0	0.5	-1.0	-5.8#	-0.0	-3.2#	0.5	-2.1	-0.9	6.5*	-4.6	2.8	-3.2
STD ERR OF DP		1.3	1.6	1.7	1.7	0.6	0.6	2.0	0.5	3.4	1.9	1.6	1.1	2.5	2.4	1.4	2.9	3.2	3.0	1.9
STD ERR OF P	0.9	1.3	1.7	2.1	2.0	1.0	1.1	2.1	1.1	3.4	1.8	2.1	0.9	2.7	2.4	1.7	3.2	3.1	3.3	1.8

RA11
OBJ II

Which one of the following equals $\frac{47}{5}$?

○ $4\frac{7}{5}$

● $9\frac{2}{5}$

○ $47\frac{1}{5}$

○ $47 \div \frac{1}{5}$

○ I don't know.

Report #: RA11

NAEP #: A23006-123

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		9	13	17
Package-Exercise:		07-24	05-28	11-22
National P-value:				
	RA11	6.99	64.85	81.22

Timing: (in seconds)

	Stimulus:	7	7	7
	Response:	30	32	30
	I don't know:	5	5	5
	Pause:	6	6	6
RA11	Exercise total:	48	50	48

EXERCISE: RA11

Which one of the following equals 47/5?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.1	-0.1	0.0	0.0	0.1	0.0	-0.0	0.1	-0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.0	0.2	0.3	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.1	0.1
STD ERR OF P	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.3	0.4	0.0	0.0
AGE: 13																				
DELTA-P	0.8	-0.7	1.8	-0.5	-0.7	0.4	-0.4	0.5	-0.2	0.2	0.2	-0.3	-0.1	0.2	-0.7	-0.7	-0.8	-0.6	3.2	-0.7
STD ERR OF DP		0.7	1.9	0.7	0.6	0.4	0.4	0.4	0.1	0.4	0.4	0.3	0.1	0.8	0.7	0.6	0.6	0.7	3.2	0.7
STD ERR OF P	0.6	0.2	2.5	0.2	0.1	1.0	0.3	0.6	0.6	1.0	0.8	0.4	0.7	0.6	0.2	0.1	0.0	0.2	3.9	0.1
AGE: 17																				
DELTA-P	0.9	-0.7	1.9	-0.6	-0.6	0.1	-0.1	-0.5	0.1	-0.9	-0.7	-0.8	0.9	0.1	-0.9	-0.9	-0.7	-0.8	-0.5	5.8
STD ERR OF DP		0.7	2.0	0.7	0.7	0.1	0.1	0.7	0.2	0.7	0.7	0.7	0.9	0.9	0.7	0.7	0.7	0.7	0.8	5.9
STD ERR OF P	0.7	0.2	2.7	0.2	0.3	0.7	0.7	0.3	0.8	0.0	0.2	0.1	1.5	0.8	0.0	0.0	0.2	0.1	0.4	6.5
RESPONSE: 01 AGE: 9 TEXT: 4 7/5																				
DELTA-P	28.4	5.4*	-1.1	-1.2	-2.7	0.5	-0.5	2.4	-0.2	-6.3	0.9	1.5	-1.5	5.9	4.3	-1.0	2.8	1.8	-1.4	-6.6
STD ERR OF DP		2.3	2.6	2.0	2.1	0.9	0.9	2.1	0.5	3.8	4.6	1.9	1.4	3.4	3.5	1.7	3.0	2.9	2.0	3.4
STD ERR OF P	1.3	2.5	3.0	2.4	2.4	1.7	1.4	2.2	1.5	4.0	4.6	2.7	1.6	3.4	3.6	2.4	3.4	2.9	2.0	3.6
AGE: 13																				
DELTA-P	6.6	1.2	0.2	-0.8	-0.2	1.0	-1.0	7.5#	-1.4#	4.5	-1.0	-1.0	-1.9#	6.2#	0.4	-2.2#	0.1	4.4*	1.2	-5.3#
STD ERR OF DP		1.8	1.3	1.1	1.3	0.7	0.7	1.6	0.3	2.5	1.3	0.7	0.6	2.3	2.0	0.9	2.6	2.0	2.3	0.9
STD ERR OF P	0.8	2.1	1.5	1.2	1.5	1.2	0.8	1.9	0.7	2.6	1.3	0.9	0.8	2.1	2.0	0.9	3.0	2.1	2.6	0.5
AGE: 17																				
DELTA-P	2.0	-0.1	1.6	-0.4	-1.0*	0.4	-0.4	3.0	-0.6	1.4	0.4	-0.0	-0.7*	5.7*	0.2	-0.7	-1.5#	-0.5	-0.7	-0.4
STD ERR OF DP		0.5	0.9	0.4	0.5	0.3	0.3	1.7	0.3	0.9	0.7	0.4	0.3	2.6	1.0	0.5	0.5	0.7	0.7	0.9
STD ERR OF P	0.4	0.5	1.2	0.3	0.4	0.6	0.4	2.0	0.2	1.1	0.8	0.6	0.4	2.9	1.0	0.4	0.3	0.6	0.6	0.9
RESPONSE: 02* AGE: 9 TEXT: 9 2/5																				
DELTA-P	7.0	0.0	-1.5	0.5	0.7	1.3#	-1.3#	1.9	-0.5	4.6	-1.5	-0.0	1.9*	-1.8	-2.5#	-0.1	-0.6	2.7	-0.9	1.9
STD ERR OF DP		1.1	0.9	0.9	1.0	0.6	0.6	1.7	0.3	2.8	2.0	1.0	0.9	1.3	0.8	0.8	0.8	1.7	1.1	2.1
P-VALUE	7.0	7.0	5.5	7.5	7.7	8.3	5.7	8.9	6.5	11.6	5.5	7.0	8.8	5.2	4.5	6.9	6.4	9.7	6.1	8.9
STD ERR OF P	0.6	1.3	1.0	1.0	1.2	0.9	0.7	1.9	0.6	3.0	2.0	1.1	1.1	1.2	0.9	0.9	0.8	1.8	1.2	2.3
AGE: 13																				
DELTA-P	64.9	-7.2	-4.7	2.1	9.1#	-4.3#	4.3#	-27.4#	5.2#	-24.2#	-7.7*	1.6	10.6#	-23.9#	-4.7	2.2	0.8	-2.5	0.6	15.4#
STD ERR OF DP		4.1	2.6	3.1	2.7	1.1	1.1	2.9	0.8	4.3	3.4	1.3	1.1	6.0	4.3	2.2	4.7	4.7	4.0	2.7
P-VALUE	64.9	57.7	60.1	66.9	73.9	60.5	69.2	37.5	70.0	40.7	57.2	66.5	75.5	41.0	60.2	67.0	65.6	62.3	65.5	80.2
STD ERR OF P	1.8	4.8	2.6	4.0	2.8	2.1	2.1	3.8	1.6	4.9	4.0	2.1	1.7	6.2	4.8	2.7	5.0	5.2	4.1	2.6
AGE: 17																				
DELTA-P	81.2	0.2	-4.8*	1.3	3.2*	-1.0	1.0	-18.2#	3.5#	-14.5#	-6.9#	1.3	5.7#	-20.9#	-4.2	6.2#	2.6	0.3	3.9	-5.8
STD ERR OF DP		1.6	2.0	1.3	1.6	0.9	1.0	2.8	0.8	3.7	2.4	1.5	1.4	4.5	2.9	1.4	2.7	3.1	2.2	6.3
P-VALUE	81.2	81.5	76.5	82.5	84.5	80.3	82.2	63.1	84.8	66.7	74.4	82.6	86.9	60.3	77.0	87.4	83.8	81.6	85.2	75.4
STD ERR OF P	0.9	1.6	2.5	1.3	1.7	1.4	1.3	3.1	1.1	3.8	2.4	1.9	1.5	4.6	3.1	1.4	2.7	3.2	2.2	6.6
RESPONSE: 03 AGE: 9 TEXT: 47 1/5																				
DELTA-P	10.8	-1.3	0.1	-2.1	3.5*	1.3	-1.3	0.5	-0.1	1.9	4.2	-0.6	1.4	3.7	1.4	-1.2	-0.7	-1.6	-0.7	3.0
STD ERR OF DP		1.6	1.3	1.1	1.5	0.7	0.7	1.5	0.3	3.5	3.4	1.2	1.0	3.3	3.4	1.2	1.9	2.4	2.3	2.4
STD ERR OF P	0.8	1.9	1.3	1.2	1.8	1.0	1.2	1.6	1.0	3.6	3.7	1.4	1.4	3.3	3.4	1.6	2.0	2.6	2.5	2.5
AGE: 13																				
DELTA-P	7.7	0.1	-0.5	1.2	-1.1	0.6	-0.6	6.0#	-1.2#	4.4	2.8	-1.0	-2.0#	5.3	0.5	0.0	1.1	1.0	-2.6	-2.6
STD ERR OF DP		1.2	1.1	1.7	1.3	0.6	0.6	1.6	0.3	2.7	1.8	0.8	0.6	3.2	2.3	1.1	1.4	2.4	1.4	1.6
STD ERR OF P	0.8	1.2	1.0	2.3	1.4	1.0	1.0	1.7	0.9	2.8	2.2	0.9	1.0	3.2	2.7	1.6	1.3	2.5	1.4	1.4

EXERCISE: BA11

Which one of the following equals 47/5?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 03 AGE: 17	TEXT: 47 1/5																			
DELTA-P	3.8	-0.1	-0.4	0.1	0.3	-0.4	0.4	4.7**	-1.0**	-0.4	1.1	-0.8	-1.1	4.1*	-0.8	-0.9	-1.9*	0.3	0.9	-0.1
STD ERR OF DP		0.7	0.7	0.8	0.8	0.4	0.4	1.3	0.3	1.2	1.3	0.7	0.6	1.9	1.0	0.5	0.9	1.5	1.0	1.9
STD ERR OF P	0.4	0.7	0.8	1.0	0.9	0.6	0.6	1.5	0.5	1.1	1.4	0.8	0.7	2.0	1.0	0.6	0.8	1.5	1.2	2.1
RESPONSE: 04 AGE: 9	TEXT: 47 divided by 1/5																			
DELTA-P	33.2	-1.3	-1.8	5.3**	-3.1	-2.8**	2.8**	-1.5	0.5	-0.1	0.1	5.5*	1.3	-2.4	0.6	0.7	1.[illegible]	-1.2	-2.0	0.8
STD ERR OF DP		2.7	2.3	2.0	1.8	1.1	1.1	2.3	0.6	4.7	4.7	2.6	1.5	3.5	4.0	1.9	4.[illegible]	3.5	3.0	3.9
STD ERR OF P	1.3	3.2	2.6	2.5	1.7	1.8	1.7	2.2	1.6	4.9	4.7	3.3	2.1	3.4	4.2	2.4	4.3	3.6	3.3	4.3
AGE: 13																				
DELTA-P	14.4	4.5	3.8*	-1.7	-6.0**	2.3**	-2.3**	11.2**	-2.1**	11.0*	3.1	1.3	-4.2**	8.0**	4.3	1.5	0.2	-4.1	-2.9	-5.4*
STD ERR OF DP		2.6	1.7	1.6	1.5	0.9	0.9	2.2	0.5	5.0	3.1	0.9	0.9	3.3	2.4	1.7	2.4	2.3	1.8	2.6
STD ERR OF P	1.1	3.2	1.9	1.9	1.3	1.5	1.3	2.8	1.0	5.6	3.1	1.5	0.9	3.4	2.7	2.3	2.5	2.2	1.7	2.7
AGE: 17																				
DELTA-P	9.4	0.5	1.8	-0.5	-1.6	0.8	-0.8	10.4**	-1.9**	13.3**	5.5**	-0.4	-3.3**	10.6**	6.5*	-3.3**	2.2	-0.3	-4.5**	0.5
STD ERR OF DP		1.4	1.3	0.9	0.9	0.6	0.7	2.1	0.5	3.8	1.9	0.9	0.7	2.0	2.9	0.9	1.8	2.1	1.3	2.0
STD ERR OF P	0.6	1.5	1.6	1.0	0.9	0.9	0.9	2.2	0.6	3.9	2.1	1.2	0.6	2.0	3.2	1.0	1.8	2.0	1.3	2.2
RESPONSE: 09 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	20.6	-2.7	4.4	-2.4	1.5	-0.3	0.3	-3.4	0.3	0.1	-3.6	-6.2**	-3.0*	-5.2	-3.7	1.5	-3.5	-2.0	5.1	1.0
STD ERR OF DP		1.5	2.8	1.5	2.0	0.8	0.8	2.2	0.6	4.6	3.9	1.5	1.5	2.9	2.5	1.3	2.0	3.2	3.0	4.0
STD ERR OF P	1.1	1.3	3.5	1.4	2.4	1.5	1.3	1.9	1.4	4.6	4.2	1.8	2.0	2.8	2.3	1.6	1.9	3.3	3.5	4.6
AGE: 13																				
DELTA-P	5.6	2.1*	-0.5	-0.3	-1.1	0.1	-0.1	2.3	-0.4	4.2	[illegible]	-0.6	-2.4**	3.4*	0.1	-0.8	-1.3	1.0	0.5	-1.5
STD ERR OF DP		0.9	1.0	0.8	0.9	0.5	0.5	1.4	0.3	2.8	2.1	0.7	0.6	1.5	2.0	0.9	1.1	2.2	1.5	1.3
STD ERR OF P	0.5	1.0	1.2	0.9	1.0	0.7	0.7	1.5	0.6	2.9	2.2	0.8	0.7	1.5	2.1	1.0	1.1	2.3	1.6	1.4
AGE: 17																				
DELTA-P	2.7	0.2	-0.1	0.2	-0.4	0.1	-0.1	0.6	-0.1	1.0	0.7	0.6	-1.4**	0.4	-0.7	-0.4	-0.7	0.9	0.8	0.0
STD ERR OF DP		0.5	0.6	0.5	0.5	0.5	0.5	0.9	0.2	1.6	0.9	0.7	0.4	1.1	1.0	0.5	1.0	1.2	1.1	1.0
STD ERR OF P	0.3	0.5	0.8	0.7	0.5	0.6	0.6	0.9	0.4	1.7	1.0	0.8	0.5	1.1	1.0	0.6	1.0	1.1	1.3	1.1

RA12
OBJ II

A candy bar is broken into three pieces of the same size. Each piece is what part of the candy bar?

ANSWER ______________________

Report #: RA12

NAEP #: A23011-1

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 01-02
National P-value:
RA12 19.90

Timing: (in seconds)
Stimulus: 6
Response: 16
RA12 Exercise total: 22

SCORING GUIDE
RA12
A23011-1

00 = No Response

10 = 1/3; .33; 33%; one third

20 = 3; 3 pieces

21 = End, middle, end; 2 sides and middle; 2 sides; middle; ends; left

22 = Other Unacceptable

39 = I Don't Know.

EXERCISE: PA12

A candy bar is broken into three pieces of the same size. Each piece is what part of the candy bar?

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	13.9	4.7*	-2.2	1.2	-3.2	0.9	-0.9	9.4#	-2.9#	3.3	1.5	-2.6	-5.1#	12.7#	-1.0	1.0	-4.9	2.8	-2.5	-4.6*
STD ERR OF DP		2.2	2.0	2.6	1.9	0.8	0.8	3.3	0.8	2.3	3.5	1.6	1.5	4.8	3.6	2.0	2.9	3.8	2.9	2.2
STD ERR OF P	1.3	2.4	2.2	3.3	2.0	1.3	1.7	3.7	1.1	2.8	3.7	1.7	1.5	5.2	3.7	2.5	3.1	4.0	3.1	2.1

RESPONSE: 10* AGE: 9 TEXT: 1/3; .33; 33%; one-third

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	19.9	-2.8	-2.8	0.8	4.4	0.9	-0.9	-11.0#	2.5#	-6.4*	-9.0#	-0.5	9.5#	-10.0*	-5.3	0.4	3.6	-2.0	3.2	[illegible]
STD ERR OF DP		3.0	2.0	[illegible]	2.5	0.9	0.9	2.3	0.6	2.9	2.4	1.3	1.4	4.1	4.9	2.4	3.3	3.5	3.5	3.0
P-VALUE	19.9	17.1	17.1	20.7	24.3	20.8	19.0	9.0	22.4	13.5	10.9	19.4	29.4	9.9	14.6	20.3	23.5	17.9	23.1	21.8
STD ERR OF P	1.3	3.7	2.2	1.5	3.0	1.7	1.6	2.4	1.5	3.2	2.4	2.1	1.9	4.2	5.0	3.0	3.7	3.7	3.6	3.0

RESPONSE: 20 AGE: 9 TEXT: 3; 3 pieces

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	4.3	0.6	-0.9	0.7	-0.4	-0.6	0.6	5.2#	-1.1#	-1.6	2.0	[illegible]	-0.9	8.1	-0.3	-1.4	1.2	0.0	-0.7	-1.5
STD ERR OF DP		1.1	1.0	0.9	0.9	0.5	0.5	1.2	0.3	1.4	2.4	0.9	0.7	4.6	1.4	0.7	1.4	1.3	1.3	1.1
STD ERR OF P	0.6	1.3	1.2	1.0	1.0	0.6	0.9	1.4	0.5	1.6	2.4	1.1	0.6	4.9	1.4	0.8	1.5	1.4	1.4	1.1

RESPONSE: 21 AGE: 9 TEXT: End, middle, end; 2 sides and middle; 2 sides; middle; ends; left

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	5.5	0.2	0.0	-1.1	0.9	0.6	-0.6	-0.3	0.3	0.3	0.7	-1.4	2.5*	-0.2	-1.7	-0.4	0.4	-2.2	1.7	1.9
STD ERR OF DP		1.2	0.9	0.8	1.0	0.6	0.6	1.4	0.2	2.1	2.5	1.0	1.1	1.6	1.3	0.8	1.7	1.3	1.8	1.6
STD ERR OF P	0.6	1.5	1.0	0.8	1.2	0.8	0.8	1.6	0.6	2.1	2.6	1.0	1.4	1.6	1.3	0.9	2.0	1.2	1.9	1.7

RESPONSE: 22 AGE: 9 TEXT: Other Unacceptable

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	16.5	2.2	-3.1*	2.4	-1.3	1.0	-1.0	9.3#	-1.2#	5.5	0.9	2.2	-1.1	5.6	4.1	-0.7	-3.1	4.3	-4.7	0.6
STD ERR OF DP		1.6	1.5	1.7	[illegible]	1.0	1.0	2.1	0.4	3.5	3.5	1.7	1.4	2.9	3.6	1.6	2.5	3.5	2.6	2.5
STD ERR OF P	0.9	1.7	1.6	2.1	1.8	1.4	1.3	2.1	1.1	3.5	3.7	2.0	1.7	2.8	3.6	1.9	2.7	3.7	2.7	2.7

RESPONSE: 39 AGE: 9 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	40.0	-4.9	8.9#	-4.0*	-0.4	-2.7	2.7	-12.6#	2.3#	-1.3	4.0	1.8	-4.0*	-16.2#	4.2	0.2	2.8	-3.0	3.0	1.6
STD ERR OF DP		2.6	1.9	2.0	1.9	1.4	1.4	3.3	0.7	4.9	5.3	2.2	2.1	3.5	6.1	2.7	3.3	4.6	3.8	3.8
STD ERR OF P	1.2	3.0	2.1	2.3	2.1	1.8	1.9	3.7	1.2	4.9	5.3	2.5	2.4	3.5	6.0	3.1	3.3	4.8	4.1	3.5

MA13
OBJ III

There are 13 boys and 15 girls in a group. What fractional part of the group is boys?

ANSWER ______________________

SCORING GUIDE
MA13
A23015-234

00 = No Response

10 = 13/28

11 = .46; .464 (or carries out farther)

20 = 46.4%; 46%

21 = 13/15; 86.6%; .866

22 = 15/28; .536; 53.6%

23 = 28/13; 2 and 2/13; 2.15

24 = Other Unacceptable

39 = I Don't Know.

Report #: MA13

NAEP #: A23015-234

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		07-25	10-23	07-20
National P-value:				
	MA13	20.41	35.92	24.65
Timing: (in seconds)				
	Stimulus:	6	7	6
	Response:	31	30	*
MA13	Exercise total:	37	37	*

*Time not limited by paced tape.

EXERCISE: BA13

There are 13 boys and 15 girls in a group. What fractional part of the group is boys?

	NATION	REGION: SOUTH EAST	REGION: WEST	REGION: CENTRAL	REGION: NORTH EAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	SIZE-AND-TYPE OF COMMUNITY: EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY: SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY: MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY: MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY: URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY: HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	4.7	-0.9	3.3	0.5	-2.9#	0.3	-0.3	1.3	-0.2	1.8	0.8	0.3	-0.6	-0.2	3.6	-2.5*	-1.4	3.6	4.5	-3.4#
STD ERR OF DP		1.3	2.2	1.9	1.0	0.4	0.4	1.8	0.3	1.7	1.3	0.7	0.6	2.5	5.0	1.1	1.4	4.1	4.0	1.2
STD ERR OF P	1.0	1.1	2.8	2.4	0.5	1.0	1.0	1.9	1.1	2.3	1.6	1.2	1.2	2.1	5.5	0.6	1.2	4.4	4.5	0.8
AGE: 17																				
DELTA-P	1.9	-0.3	0.5	-0.4	0.2	-0.2	0.2	1.3	-0.4	-0.4	0.5	0.2	-0.9#	2.0	0.1	-0.3	0.7	3.0	-1.6#	-1.2*
STD ERR OF DP		0.6	0.7	0.5	0.7	0.3	0.3	1.0	0.2	0.9	0.7	0.4	0.3	1.7	1.6	0.4	0.8	1.9	0.4	0.6
STD ERR OF P	0.4	0.7	0.8	0.6	0.8	0.4	0.5	1.1	0.3	1.0	0.8	0.5	0.3	1.8	1.6	0.5	0.9	2.0	0.2	0.6
AGE: Ad																				
DELTA-P	0.6	0.4	0.6	-0.5*	-0.4	0.0	-0.0	-0.6#	-0.1	0.0	0.4	0.1	-0.5*	-0.6#	1.9	-0.2	0.7*	0.0	-0.1	-0.6#
STD ERR OF DP		0.7	0.4	0.2	0.3	0.1	0.1	0.2	0.1	0.3	0.8	0.4	0.2	0.2	1.6	0.2	0.3	0.4	0.5	0.2
STD ERR OF P	0.2	0.9	0.4	0.1	0.2	0.2	0.3	0.0	0.3	0.4	0.9	0.3	0.1	0.0	1.8	0.2	0.2	0.5	0.5	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	20.4	-2.4	-3.3	2.6	2.5	0.1	-0.1	-9.4#	2.1#	-6.7#	-5.6#	-3.9#	6.7#	-10.5#	0.2	-1.3	0.1	-2.2	-1.0	12.7#
STD ERR OF DP		2.9	2.0	2.1	1.8	0.9	0.9	1.6	0.4	2.6	2.0	1.2	1.1	3.7	3.2	1.8	2.3	4.0	3.1	3.3
P-VALUE	20.4	18.0	17.2	23.0	22.9	20.5	20.3	11.0	22.5	13.8	14.8	16.6	27.1	9.9	20.7	19.1	20.5	18.2	19.5	33.1
STD ERR OF P	1.3	3.5	2.1	2.6	1.8	1.6	1.5	1.9	1.4	2.8	2.4	1.4	1.9	3.6	3.3	2.3	2.5	4.2	3.2	3.5
AGE: 17																				
DELTA-P	35.9	-5.4	-3.7	3.6	4.2	6.4#	-5.9#	-20.2#	4.2#	-15.4#	-12.6#	-2.9	10.9#	-11.6#	-14.8#	0.1	7.6*	-3.7	1.6	10.3#
STD ERR OF DP		3.3	2.3	2.8	3.2	1.1	1.1	2.8	0.7	4.3	3.1	2.2	1.3	3.7	4.7	1.8	3.4	4.6	4.2	3.7
P-VALUE	35.9	30.5	32.2	39.6	40.1	42.3	30.1	15.7	40.1	20.5	23.4	33.0	46.8	24.3	21.2	36.0	43.5	32.2	37.5	46.2
STD ERR OF P	1.7	3.8	2.2	3.4	3.8	1.8	2.2	2.7	2.0	4.2	3.8	2.4	2.2	3.5	4.8	2.5	4.0	4.6	4.7	3.6
AGE: Ad																				
DELTA-P	24.7	-0.2	1.3	-2.0	0.9	4.7#	-4.4#	-20.1#	2.7#	-12.4#	-10.9#	3.4*	17.2#	-11.0#	-4.1	-2.8	3.4	-1.1	-5.1	20.2#
STD ERR OF DP		2.5	2.1	1.5	2.3	1.2	1.1	1.8	0.8	1.4	1.9	1.6	1.9	3.4	2.3	1.5	3.5	4.2	3.1	4.0
P-VALUE	24.7	24.5	26.0	22.7	25.6	29.4	20.2	4.5	27.3	12.3	13.7	28.1	41.9	13.7	20.5	21.8	28.1	23.5	19.5	44.9
STD ERR OF P	1.2	2.9	2.6	1.5	2.8	1.9	1.4	1.7	1.3	1.5	1.8	2.1	2.3	3.4	2.3	1.8	3.8	4.5	3.3	4.2
RESPONSE: 10 AGE: 13	TEXT: 13/28																			
DELTA-P	20.4	-2.4	-3.3	2.6	2.5	0.1	-0.1	-9.4#	2.1#	-6.7#	-5.6#	-3.9#	6.7#	-10.5#	0.2	-1.3	0.1	-2.2	-1.0	12.7#
STD ERR OF DP		2.9	2.0	2.1	1.8	0.9	0.9	1.6	0.4	2.6	2.0	1.2	1.1	3.7	3.2	1.8	2.3	4.0	3.1	3.3
STD ERR OF P	1.3	3.5	2.1	2.6	1.8	1.6	1.5	1.9	1.4	2.8	2.4	1.4	1.9	3.6	3.3	2.3	2.5	4.2	3.2	3.5
AGE: 17																				
DELTA-P	35.9	-5.4	-3.7	3.5	4.2	6.3#	-5.8#	-20.2#	4.1#	-15.4#	-12.5#	-2.3	10.8#	-11.6#	-14.7#	0.1	7.6*	-3.7	1.6	10.0#
STD ERR OF DP		3.3	2.3	2.8	3.2	1.1	1.1	2.8	0.7	4.3	3.0	2.2	1.3	3.7	4.7	1.8	3.4	4.6	4.2	3.6
STD ERR OF P	1.6	3.8	2.2	3.4	3.8	1.7	2.2	2.7	2.0	4.2	3.8	2.4	2.2	3.5	4.8	2.5	4.0	4.6	4.7	3.6
AGE: Ad																				
DELTA-P	24.5	-0.0	1.3	-2.2	1.1	4.7#	-4.4#	-20.0#	2.7#	-12.3#	-11.1#	3.2*	17.4#	-10.8#	-4.0	-2.8	3.6	-1.0	-5.0	19.7#
STD ERR OF DP		2.5	2.1	1.5	2.3	1.2	1.2	1.8	0.8	1.4	1.9	1.5	1.9	3.4	2.3	1.5	3.4	4.2	3.1	3.9
STD ERR OF P	1.2	2.9	2.5	1.4	2.8	1.9	1.4	1.7	1.3	1.5	1.8	2.1	2.3	3.4	2.3	1.8	3.9	4.5	3.3	4.2
RESPONSE: 11 AGE: 13	TEXT: .46; .464(or carries out farther)																			
	Response did not occur at this age.																			
AGE: 17																				
DELTA-P	0.0	-0.0	-0.0	0.1	-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.4
STD ERR OF DP		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4
STD ERR OF P	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4

2

EXERCISE: BA13

There are 13 boys and 15 girls in a group. What fractional part of the group is boys?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 11 AGE: Ad	TEXT: .46; .464(or carries out farther)																			
DELTA-P	0.1	-0.1	0.0	0.2	-0.1	0.1	-0.1	-0.1	0.0	-0.1	0.1	0.2	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1	-0.1	0.6
STD ERR OF DP		0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6
STD ERR OF P	0.1	0.0	0.2	0.3	0.0	0.2	0.1	0.0	0.1	0.0	0.3	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7
RESPONSE: 20 AGE: 13	TEXT: 46.4%; 46%																			
	Response did not occur at this age.																			
AGE: 17																				
DELTA-P	0.2	-0.1	0.3	-0.2*	-0.1	0.1	-0.1	-0.2*	0.1#	-0.2*	-0.2*	-0.2*	0.2	-0.2*	-0.2*	0.2	0.2	-0.2*	-0.2*	-0.2*
STD ERR OF DP		0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.1	0.3	0.0	0.1	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.4	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.9	-0.8#	-0.1	0.6	0.1	0.2	-0.2	-0.9#	0.2#	-0.2	-0.2	-0.3	0.8	-0.9#	-0.2	-0.1	0.1	0.3	0.6	0.1
STD ERR OF DP		0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.0	0.3	0.4	0.3	0.4	0.2	0.6	0.3	0.7	0.8	0.7	0.6
STD ERR OF P	0.2	0.1	0.2	0.4	0.4	0.3	0.3	0.0	0.2	0.3	0.5	0.3	0.5	0.0	0.7	0.3	0.7	0.9	0.8	0.6
RESPONSE: 21 AGE: 13	TEXT: 13/15; 86.6%; .866																			
DELTA-P	16.6	-2.2	-3.1	2.9	1.9	1.5	-1.5	-7.3#	1.4#	-5.3	-2.2	1.5	2.1	-9.0#	-2.6	0.9	-2.1	0.2	4.0	3.8
STD ERR OF DP		2.3	1.7	1.8	2.0	1.0	0.9	2.5	0.5	3.0	2.7	1.2	1.1	2.0	3.1	1.4	2.3	3.0	3.0	3.7
STD ERR OF P	1.1	2.8	1.8	2.1	2.3	1.5	1.4	2.4	1.3	2.9	2.7	1.7	1.9	1.9	3.2	1.7	2.6	3.2	3.3	4.0
AGE: 17																				
DELTA-P	17.3	-2.7	-0.2	-0.9	3.6	-0.6	0.6	-6.5#	1.7#	-3.1	-4.3#	2.4	1.0	-8.5#	4.1	3.5	-5.3#	-5.5	0.5	3.0
STD ERR OF DP		1.8	1.8	1.9	3.0	0.9	0.9	1.9	0.4	2.3	1.7	1.5	1.3	2.1	4.9	2.0	2.2	2.9	2.6	2.6
STD ERR OF P	1.3	1.6	1.8	2.1	4.0	1.2	1.9	1.6	1.6	2.4	2.4	2.2	1.6	1.9	5.2	2.9	2.0	2.8	2.6	2.6
AGE: Ad																				
DELTA-P	15.1	-0.7	0.8	-0.6	0.4	-0.4	0.4	-10.1#	1.7#	-0.8	4.9	-1.8	0.8	-5.0*	1.2	1.7	-2.3	-5.2*	-0.2	3.0
STD ERR OF DP		1.7	1.5	1.4	1.8	0.9	0.8	1.6	0.3	1.5	2.5	1.2	1.4	2.1	2.5	1.1	2.4	2.4	2.7	2.6
STD ERR OF P	0.9	1.8	1.7	1.6	2.2	1.2	1.3	1.7	1.0	1.7	2.8	1.5	1.8	2.2	2.4	1.4	2.6	2.6	2.9	2.9
RESPONSE: 22 AGE: 13	TEXT: 15/28; .536; 53.6%																			
DELTA-P	2.5	0.3	0.8	-0.4	-0.6	0.5	-0.5	-1.9#	0.5#	-1.7*	-1.9#	-0.5	1.4#	-1.8#	-0.2	-0.3	0.7	-1.9#	2.1	-0.1
STD ERR OF DP		0.8	1.0	0.6	0.6	0.4	0.3	0.6	0.1	0.8	0.6	0.5	0.4	0.6	1.0	0.5	1.0	0.6	1.4	0.9
STD ERR OF P	0.4	0.9	1.3	0.7	0.5	0.6	0.5	0.4	0.5	0.8	0.5	0.6	0.8	0.5	1.0	0.6	1.2	0.4	1.6	1.1
AGE: 17																				
DELTA-P	2.5	0.2	-1.5#	0.9	0.3	0.8*	-0.7*	-0.9	0.1	-1.1	0.8	-0.3	0.2	0.6	-0.2	0.1	-0.8	1.6	-0.5	0.2
STD ERR OF DP		0.8	0.5	0.7	0.7	0.4	0.4	1.0	0.2	1.0	1.3	0.5	0.4	1.7	1.5	0.4	0.8	1.9	0.8	0.9
STD ERR OF P	0.4	0.9	0.4	0.9	0.8	0.6	0.5	1.0	0.4	0.9	1.3	0.5	0.6	1.8	1.6	0.4	0.9	2.0	0.9	1.0
AGE: Ad																				
DELTA-P	3.1	-1.5*	-0.5	-0.1	1.8	2.1#	-2.0#	-2.4#	0.4#	-0.5	0.3	-0.0	0.7	-2.0	-1.3	0.0	-0.4	-0.2	1.7	1.0
STD ERR OF DP		0.7	0.7	0.8	0.9	0.6	0.5	0.9	0.2	0.9	0.9	0.8	0.7	1.0	1.0	0.6	1.3	1.6	2.0	1.3
STD ERR OF P	0.5	0.8	0.8	1.0	1.1	1.0	0.3	0.8	0.6	1.1	1.0	0.9	0.8	0.9	1.0	0.9	1.3	1.6	2.2	1.3
RESPONSE: 23 AGE: 13	TEXT: 28/13; 2 2/13; 2.15																			
DELTA-P	0.6	-0.1	0.2	-0.2	0.1	-0.3*	0.3*	-0.4	0.1#	-0.4	0.5	0.0	0.1	-0.4	0.4	-0.2	0.3	-0.6#	-0.2	0.9
STD ERR OF DP		0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.3	0.6	0.2	0.2	0.2	0.6	0.2	0.4	0.2	0.4	0.8
STD ERR OF P	0.2	0.3	0.4	0.2	0.4	0.2	0.3	0.2	0.2	0.2	0.7	0.3	0.3	0.2	0.6	0.2	0.5	0.0	0.4	0.9

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO

EXERCISE: RA13

There are 13 boys and 15 girls in a group. What fractional part of the group is boys?

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 23 AGE: 17 TEXT: 28/13; 2 2/13; 2.15																				
DELTA-P	0.2	0.1	0.3	-0.2#	-0.1	-0.1	0.1	0.4	-0.1	0.0	-0.2#	0.1	-0.0	-0.2#	0.0	0.1	0.2	-0.1	-0.2#	0.1
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.3	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.2	0.1	0.3
STD ERR OF P	0.1	0.2	0.3	0.0	0.1	0.1	0.2	0.4	0.1	0.3	0.0	0.2	0.1	0.0	0.3	0.2	0.3	0.2	0.0	0.4
AGE: Ad																				
DELTA-P	0.3	-0.3*	-0.1	0.1	0.3	-0.1	0.1	0.1	0.0	0.2	0.1	-0.3*	0.1	-0.3*	-0.3*	-0.1	0.3	0.4	0.7	-0.3*
STD ERR OF DP		0.1	0.2	0.3	0.3	0.1	0.1	0.4	0.1	0.3	0.4	0.1	0.3	0.1	0.1	0.2	0.6	0.6	0.7	0.1
STD ERR OF P	0.1	0.0	0.2	0.3	0.4	0.2	0.2	0.4	0.2	0.3	0.4	0.0	0.3	0.0	0.0	0.2	0.6	0.7	0.8	0.0
RESPONSE: 24 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	43.1	5.6*	1.6	-4.7	-1.4	-1.8	1.8	17.0#	-3.5#	12.6*	3.2	2.8	-7.3#	14.5#	2.5	1.7	4.4	2.4	-9.9#	-12.0#
STD ERR OF DP		2.6	2.8	3.0	2.3	1.2	1.2	3.2	0.8	5.1	4.1	1.7	1.3	5.0	5.0	2.2	3.4	4.4	3.1	3.3
STD ERR OF P	1.6	2.7	3.2	3.8	2.4	2.0	2.0	3.7	1.6	5.5	4.3	2.5	1.7	5.2	5.5	2.6	3.7	4.7	3.1	3.4
AGE: 17																				
DELTA-P	28.6	7.5#	3.2	-2.1	-7.1#	-2.8#	2.6#	23.3#	-5.1#	15.9#	10.8#	0.2	-7.3#	13.6#	14.0*	-4.0*	-1.3	2.8	1.1	-10.8#
STD ERR OF DP		2.8	2.2	2.3	2.1	1.0	0.9	2.6	0.6	3.9	2.4	1.8	1.3	3.9	5.6	1.8	2.5	5.0	3.3	2.7
STD ERR OF P	1.4	3.1	2.4	2.7	2.4	1.5	1.8	3.0	1.3	4.1	2.3	2.4	1.5	4.0	5.6	2.2	2.8	5.1	3.7	2.6
AGE: Ad																				
DELTA-P	34.7	5.5	-3.4	-0.3	-0.7	-0.6	0.6	29.3#	-3.6#	8.4#	6.8*	-3.0	-11.4#	14.4#	1.7	0.1	-1.4	7.8	1.2	-15.7#
STD ERR OF DP		3.3	2.5	2.6	2.2	1.1	1.0	3.4	0.5	2.2	2.9	2.0	2.5	4.1	3.3	1.9	3.7	4.7	3.6	3.7
STD ERR OF P	1.5	3.8	2.9	3.1	2.3	1.8	1.9	3.5	1.5	2.3	3.5	2.9	2.7	4.3	3.3	2.3	3.8	5.2	3.8	4.2
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	12.1	-0.4	0.6	-0.6	0.4	-0.3	0.3	0.8	-0.3	-0.3	3.2	-0.3	-2.0*	7.4	-3.9	1.7	-2.2	-1.5	0.5	-1.8
STD ERR OF DP		1.5	1.8	1.1	1.6	0.6	0.5	2.4	0.5	2.8	3.0	1.1	0.9	4.2	2.5	1.5	1.3	2.2	2.4	2.5
STD ERR OF P	0.9	1.7	2.2	1.1	1.9	1.0	1.0	2.7	1.0	2.9	3.0	1.3	1.4	4.3	2.7	1.9	1.9	2.4	2.4	2.5
AGE: 17																				
DELTA-P	13.3	0.7	1.2	-0.7	-1.0	-3.4#	3.2#	2.7	-0.5	4.3	5.1#	0.5	-4.0#	4.4	-3.1	0.5	-1.8	2.1	-0.6	-1.5
STD ERR OF DP		1.2	1.7	1.5	1.3	0.7	0.7	2.1	0.4	2.2	1.9	1.2	0.9	2.8	2.2	1.0	2.2	2.3	1.9	2.2
STD ERR OF P	0.8	1.1	2.1	1.9	1.4	0.9	1.2	2.1	1.1	2.3	2.1	1.7	1.1	3.0	2.2	1.4	2.4	2.3	2.3	2.2
AGE: Ad																				
DELTA-P	20.6	-2.5	1.4	2.7	-2.4	-5.9#	5.5#	4.6	-1.4#	5.1#	-1.3	2.0	-7.8#	5.3	1.1	1.4	-0.5	-2.0	1.3	-7.6#
STD ERR OF DP		2.5	2.5	2.5	2.6	0.9	0.9	2.9	0.5	1.8	2.1	1.7	1.8	3.8	2.5	1.8	3.0	3.0	2.9	2.5
STD ERR OF P	1.5	2.6	2.9	3.0	3.1	1.5	1.9	3.1	1.6	2.4	2.4	2.4	2.1	4.2	2.3	2.7	3.0	2.8	3.4	2.8

RA14
OBJ III

Write a fraction that has the same value as .3333 . . . .

ANSWER ____________________

SCORING GUIDE
RA14
A23016-234

00 = No Response

10 = 1/3

20 = 3/10

21 = Any fraction of the form 3.../10...where the number of 3's does not equal the number of 0's; e.g., 33/10, 3/1000, 3333/1000

22 = Other Unacceptable; e.g., .333/100, .3/100

23 = 3333/10000

24 = Any other fraction of the form 3.../10...where the number of 3's equals the number of 0's; e.g., 33/100, 333/1000

39 = I Don't Know.

Report #: RA14

NAEP #: A23016-234

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		03-13	07-21	03-09
National P-value:				
	RA14	11.85	40.76	51.53
Timing: (in seconds)				
	Stimulus:	7	7	7
	Response:	16	16	*
RA14	Exercise total:	23	23	*

*Time not limited by paced tape.

EXERCISE: RA14

Write a fraction that has the same value as .3333...

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	4.5	0.1	1.5	-0.3	-1.3	-0.2	0.2	5.2#	-1.2#	5.8	-0.9	0.7	-2.5#	6.0	2.9	-1.3#	-1.5	1.9	0.7	-1.4
STD ERR OF DP		1.1	1.3	0.3	[illegible]	0.6	0.6	1.5	0.4	3.7	1.7	0.7	0.6	3.0	2.9	0.7	1.1	1.7	2.3	1.3
STD ERR OF P	0.6	1.2	1.6	0.9	1.1	0.6	1.0	1.7	0.6	3.3	1.5	0.9	0.5	3.2	1.0	0.7	1.1	1.7	2.6	1.4
AGE: 17																				
DELTA-P	3.7	1.3*	-0.8	-1.2*	0.9	-0.0	0.0	3.4#	-0.9#	-0.8	1.3	-0.3	-1.0*	4.4#	-1.2	-0.1	-1.4*	5.6#	-1.6	-2.8#
STD ERR OF DP		0.7	0.7	0.6	0.8	0.4	0.4	1.2	0.3	1.3	1.4	0.7	0.5	1.9	0.8	0.6	0.7	2.0	1.2	0.6
STD ERR OF P	0.4	0.7	0.9	0.6	1.0	0.6	0.6	1.3	0.5	1.3	1.5	0.7	0.5	2.0	0.8	0.7	0.7	2.1	1.2	0.5
AGE: Ad																				
DELTA-P	1.2	[illegible]	0.7	-1.1#	0.7	-0.0	0.0	2.9	-0.5	0.3	-0.4	0.2	-0.4	1.8	2.1	-0.5	0.4	-0.3	0.0	-1.2#
STD ERR OF DP		0.6	0.7	0.4	1.1	[illegible]	0.3	2.5	0.3	0.6	0.6	0.7	0.5	2.6	1.8	0.4	1.0	1.0	0.8	0.4
STD ERR OF P	0.4	0.5	0.8	0.1	1.3	[illegible]	0.4	2.7	0.3	0.8	0.5	1.0	0.5	2.9	1.9	0.4	1.1	1.0	0.7	0.0
RESPONSE: 10* AGE: 13 TEXT: 1/3																				
DELTA-P	11.9	-3.4*	-2.2	0.6	4.7*	-0.8	0.7	-9.2#	2.0#	-7.4#	-8.6#	-1.8*	5.7#	-10.0#	-3.6	-1.0	-1.3	0.2	3.3	9.4#
STD ERR OF DP		1.7	1.8	1.5	2.0	0.9	0.8	1.4	0.4	1.6	1.7	0.9	0.8	1.1	2.8	1.3	2.5	2.3	3.3	2.5
P-VALUE	11.9	8.4	9.7	12.5	16.6	11.0	12.6	2.7	13.9	4.5	3.3	10.1	17.6	1.8	8.3	10.8	10.5	12.0	15.2	21.3
STD ERR OF P	1.0	1.8	2.1	1.7	2.4	1.1	1.5	1.1	1.2	1.7	1.4	1.1	1.5	0.7	2.9	1.6	2.4	2.2	3.7	2.6
AGE: 17																				
DELTA-P	40.8	-4.9	-1.0	-0.3	5.1	7.2#	-6.2#	-23.1#	4.8#	-15.2#	-15.9#	-1.1	9.3#	-17.6#	-6.8	1.7	4.2	-3.1	-0.2	13.3#
STD ERR OF DP		2.8	2.5	2.5	2.6	1.4	1.2	2.2	0.8	4.5	2.7	2.1	1.5	2.6	5.2	1.7	3.3	3.9	3.1	3.2
P-VALUE	40.8	35.9	39.8	40.4	45.9	47.9	34.6	17.7	45.5	25.5	24.9	39.7	50.0	23.2	34.0	42.5	45.0	37.7	40.6	54.1
STD ERR OF P	1.5	3.9	2.8	3.0	3.1	1.8	2.2	2.0	1.6	4.7	2.8	2.9	1.8	2.2	5.8	2.4	3.7	3.9	3.0	3.0
AGE: Ad																				
DELTA-P	51.5	-6.7*	2.3	-1.3	4.7*	15.2#	-14.1#	-32.1#	5.1#	-13.4#	-5.0	3.8	16.5#	-22.3#	-1.4	-0.4	-2.4	6.5	5.0	11.1#
STD ERR OF DP		3.1	1.7	2.3	2.3	1.1	1.3	3.2	0.6	2.3	3.1	2.2	2.2	4.9	5.3	1.7	4.5	4.0	4.5	3.1
P-VALUE	51.5	44.8	53.8	50.3	56.2	66.7	37.4	19.4	56.6	38.1	46.6	55.3	68.1	29.3	50.2	51.1	49.1	58.0	56.6	62.7
STD ERR OF P	1.3	3.5	1.6	2.9	2.7	1.5	1.8	3.2	1.3	2.7	3.3	2.4	2.3	4.9	5.6	2.1	4.7	4.0	4.9	3.0
RESPONSE: 20 AGE: 13 TEXT: 3/10																				
DELTA-P	2.7	-0.9	-0.6	0.2	1.3*	0.0	-0.0	-1.6#	0.3#	-1.4	-0.9	-0.2	1.0*	-0.2	0.5	-2.1#	0.2	1.2	3.2#	1.3
STD ERR OF DP		0.7	0.6	0.6	0.6	0.3	0.3	0.6	0.1	1.0	1.1	0.5	0.4	1.2	1.7	0.4	0.9	1.0	1.2	0.9
STD ERR OF P	0.3	0.7	0.7	0.7	0.7	0.4	0.5	0.6	0.4	1.0	1.1	0.6	0.6	1.2	1.8	0.3	1.0	1.1	1.3	1.0
AGE: 17																				
DELTA-P	4.6	0.3	-0.8	-0.3	0.9	-0.6	0.5	-3.2#	0.5#	1.2	-1.2	0.6	0.2	-1.0	-0.6	0.5	-1.1	2.2	-0.9	0.6
STD ERR OF DP		1.1	0.8	1.0	0.9	0.5	0.5	0.8	0.2	1.2	1.0	0.8	0.5	1.1	1.2	0.8	1.0	3.0	1.1	1.3
STD ERR OF P	0.5	1.2	0.9	1.3	0.8	0.7	0.8	0.7	0.6	1.5	1.1	0.9	0.8	1.2	1.2	1.0	0.9	3.3	1.2	1.4
AGE: Ad																				
DELTA-P	1.3	0.1	-0.2	0.5	-0.5	-0.7*	0.6*	-1.3#	0.1	-0.6	-0.7	-0.1	1.4	-0.5	-0.1	0.1	0.3	0.1	-1.3#	1.1
STD ERR OF DP		0.5	0.5	0.6	0.4	0.3	0.3	0.3	0.1	0.4	0.4	0.5	0.8	0.6	0.8	0.4	0.6	1.0	0.3	1.3
STD ERR OF P	0.3	0.5	0.6	0.8	0.4	0.3	0.5	0.0	0.3	0.4	0.3	0.4	1.1	0.6	0.8	0.5	0.6	1.1	0.0	1.5
RESPONSE: 21 AGE: 13 TEXT: Any fraction of the form 3.../10.... where the number of 3's does not equal the number of 0's; e.g., 33/10; 3/1000; 3333/1000																				
DELTA-P	9.7	-0.5	-2.0	0.1	2.4	-1.1	1.0	-4.3#	1.1#	-6.2#	0.1	0.7	1.4	-6.9#	-0.5	1.7	0.0	-1.7	-0.5	2.0
STD ERR OF DP		1.7	1.4	1.3	1.4	0.8	0.7	1.6	0.4	1.9	2.4	0.9	0.8	1.4	3.1	1.0	2.3	1.3	1.6	1.8
STD ERR OF P	0.8	1.9	1.6	1.5	1.6	1.1	1.1	1.6	1.0	1.6	2.4	1.2	1.4	1.2	3.2	1.4	2.5	1.3	1.7	2.0
AGE: 17																				
DELTA-P	9.0	0.5	-1.1	3.4#	-2.9#	-3.5#	3.0#	0.4	0.2	5.9#	0.7	-0.1	-0.9	-0.8	6.1#	-0.7	-1.6	-0.8	3.2	-5.0#
STD ERR OF DP		1.3	1.2	1.2	1.1	0.7	0.6	2.0	0.4	1.8	2.3	1.0	0.7	2.6	2.3	1.1	1.8	1.3	2.2	1.3
STD ERR OF P	0.7	1.4	1.3	1.5	1.2	0.8	1.0	2.1	0.8	1.8	2.4	1.2	1.0	2.7	2.4	1.4	2.0	1.2	2.4	1.2

EXERCISE: RA19

Write a fraction that has the same value as .3333...

RESPONSE: 21 AGE: Ad TEXT: Any fraction of the form 3.../10.... where the number of 3's does not equal the number of 0's; e.g., 33/10; 3/1000; 3333/1000

AGE		NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
Ad	DELTA-P	3.2	0.7	-0.9	0.3	0.1	-0.8	0.7	-2.2*	0.2	-0.6	0.8	-0.2	0.6	-0.9	2.2	-0.6	1.5	-1.7*	0.7	0.4
	STD ERR OF DP		0.8	0.8	0.6	0.8	0.5	0.5	0.7	0.2	0.7	1.2	0.7	0.9	1.1	2.1	0.5	1.2	0.8	1.6	1.6
	STD ERR OF P	0.4	0.9	0.9	0.7	1.0	0.6	0.7	0.6	0.5	0.7	1.4	0.7	1.1	1.2	2.1	0.5	1.3	0.7	1.7	1.8

RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable; e.g., .333/100; .3/100

AGE		NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
13	DELTA-P	31.3	9.5*	-1.4	-1.3	-5.6*	3.6*	-3.3*	17.1*	-2.7*	12.3*	9.3*	1.0	-6.4*	9.6*	1.8	4.0*	-3.5	-0.5	-4.2	-10.4*
	STD ERR OF DP		2.5	2.2	2.3	2.0	1.2	1.1	2.9	0.7	5.4	4.4	1.5	1.2	4.3	4.2	1.5	3.0	4.2	2.5	2.7
	STD ERR OF P	1.3	2.9	2.5	2.9	2.1	1.7	1.8	3.1	1.3	5.7	4.3	2.1	1.6	4.4	4.6	2.0	3.0	4.6	2.6	2.7
17	DELTA-P	20.5	1.2	0.5	0.4	-1.8	-1.8	1.5	17.0*	-3.6*	2.1	10.9*	0.7	-5.6*	8.3*	1.4	-1.2	-1.6	4.4	1.6	-8.4*
	STD ERR OF DP		1.7	1.9	1.5	1.3	1.1	1.0	2.6	0.6	2.5	2.7	1.7	1.1	2.8	3.2	1.2	2.2	2.2	2.2	2.6
	STD ERR OF P	0.9	1.9	2.3	1.8	1.3	1.3	1.5	2.9	0.9	2.7	3.0	2.0	1.1	3.0	3.5	1.4	2.3	2.1	2.3	2.7
Ad	DELTA-P	10.9	0.1	0.5	1.6	-2.4	-1.8*	1.6*	11.8*	-1.5*	-0.1	2.5	0.4	-3.1*	6.9	-3.8	-0.9	0.6	1.8	-1.0	-0.8
	STD ERR OF DP		2.2	1.4	1.7	1.3	0.8	0.8	3.6	0.4	1.5	2.0	1.2	1.1	3.5	2.1	1.1	2.6	3.3	1.8	2.3
	STD ERR OF P	0.9	2.7	1.4	2.1	1.3	1.2	1.3	3.9	0.9	1.6	2.3	1.5	1.4	3.8	2.2	1.6	2.8	3.5	1.7	2.4

RESPONSE: 23 AGE: 13 TEXT: 3333/10000

AGE		NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
13	DELTA-P	11.6	-2.2	-1.9	1.8	2.1	-0.9	0.8	-9.2*	1.9*	-7.0*	-4.6	-0.9	4.8*	-8.2*	-4.5	0.0	3.8	-1.5	-2.1	7.6*
	STD ERR OF DP		1.7	1.4	2.1	1.8	0.7	0.6	1.3	0.3	1.7	2.4	1.0	1.0	1.6	2.6	1.3	2.7	1.7	2.0	2.9
	STD ERR OF P	1.0	1.8	1.4	2.7	2.0	1.1	1.3	0.7	1.2	1.7	2.4	1.4	1.5	1.3	2.5	1.6	2.6	2.1	2.0	3.5
17	DELTA-P	5.8	-0.7	1.0	-0.3	-0.1	0.6	-0.5	-2.6*	0.5*	0.3	-1.8	-0.3	0.9	1.2	2.2	-0.3	-0.1	-1.9	0.5	-1.1
	STD ERR OF DP		1.0	1.1	0.9	0.9	0.5	0.4	0.9	0.2	2.0	1.2	0.7	0.6	1.6	2.0	0.9	1.1	1.5	1.4	1.3
	STD ERR OF P	0.6	1.1	1.3	1.1	1.0	0.8	0.7	0.8	0.7	2.1	1.2	0.9	0.9	1.6	2.3	1.1	1.2	1.5	1.4	1.3
Ad	DELTA-P	2.9	-0.5	-0.2	-0.6	1.4	-0.4	0.4	-2.2*	0.3	-0.4	-0.3	1.1	-0.8	-2.8*	-1.6*	0.2	-1.5	1.4	-0.7	2.9
	STD ERR OF DP		0.9	0.7	0.7	0.9	0.4	0.4	0.9	0.2	0.7	1.0	0.7	0.6	0.6	0.8	0.7	0.9	1.4	1.3	1.9
	STD ERR OF P	0.4	0.9	0.8	0.8	1.1	0.5	0.7	0.8	0.5	0.8	1.0	1.0	0.7	0.4	0.7	0.9	0.7	1.4	1.4	2.1

RESPONSE: 24 AGE: 13 TEXT: Any other fraction of the form 3.../10... where the number of 3's equals the number of 0's; e.g., 33/100; 333/1000

AGE		NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
13	DELTA-P	2.8	-0.9	-1.3*	1.4*	0.7	0.0	-0.0	-1.6*	0.4*	-1.2	-0.3	0.1	0.4	-1.0	1.0	0.1	-0.2	-0.7	0.6	-0.0
	STD ERR OF DP		0.7	0.6	0.7	0.8	0.4	0.4	0.7	0.1	1.1	1.0	0.5	0.5	0.9	1.9	0.7	1.1	1.0	1.3	1.2
	STD ERR OF P	0.4	0.7	0.7	0.8	1.0	0.6	0.6	0.6	0.5	1.1	1.0	0.6	0.8	0.8	1.9	0.8	1.2	1.0	1.5	1.4
17	DELTA-P	2.1	-0.3	-0.2	-0.2	0.6	0.3	-0.3	-1.7*	0.3*	-0.9	-0.1	0.5	0.1	-0.2	0.8	-0.3	0.2	-1.8*	-0.4	2.1
	STD ERR OF DP		0.5	0.6	0.4	0.5	0.3	0.3	0.4	0.1	0.8	0.8	0.5	0.4	0.8	0.9	0.5	0.7	0.4	0.7	1.4
	STD ERR OF P	0.3	0.5	0.7	0.5	0.5	0.4	0.4	0.3	0.3	0.9	0.8	0.6	0.5	0.8	1.0	0.5	0.7	0.3	0.7	1.5
Ad	DELTA-P	0.7	-0.5	-0.5	0.8	0.0	0.2	-0.2	-0.1	-0.2	-0.7*	-0.0	-0.2	0.9	-0.7*	-0.2	-0.4	-0.4	-0.7*	0.7	1.9
	STD ERR OF DP		0.3	0.3	0.6	0.5	0.3	0.3	0.6	0.3	0.3	0.4	0.4	0.8	0.3	0.6	0.3	0.4	0.3	0.7	1.6
	STD ERR OF P	0.3	0.2	0.2	0.9	0.5	0.5	0.3	0.6	0.2	0.0	0.5	0.3	1.0	0.0	0.5	0.2	0.3	0.0	0.8	1.9

RESPONSE: 39 AGE: 13 TEXT: I Don't Know.

AGE		NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
13	DELTA-P	25.6	-1.6	8.0*	-2.4	-4.3	-0.6	0.6	3.7	-1.9*	5.1	5.8	0.3	-4.4*	10.8*	2.4	-0.8	2.4	1.0	-1.1	-8.3*
	STD ERR OF DP		2.3	2.3	2.2	2.5	1.0	0.9	2.4	0.5	3.3	3.9	1.4	1.2	3.6	4.5	1.7	3.7	4.1	3.6	2.3
	STD ERR OF P	1.4	2.5	2.7	2.6	2.9	1.6	1.8	2.6	1.4	3.6	4.3	1.8	1.7	3.8	4.8	1.9	4.1	4.4	3.8	2.5

EXERCISE: RA14

Write a fraction that has the same value as .3333...

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION: SOUTH EAST	REGION: WEST	REGION: CENTRAL	REGION: NORTH EAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	SIZE-AND-TYPE OF COMMUNITY: EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY: SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY: MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY: MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY: URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY: HIGH METRO
AGE: 17																				
DELTA-P	13.5	2.6	2.3	-1.8	-2.7	-2.3*	2.0*	9.7*	-1.9*	7.4*	6.1*	-0.0	-3.1*	5.8*	-1.9	0.3	1.4	-4.5*	-2.2	1.2
STD ERR OF DP		1.5	1.7	1.4	1.6	0.8	0.7	2.1	0.4	2.6	2.0	1.0	1.0	2.4	2.4	1.0	2.8	1.6	2.4	2.8
STD ERR OF P	0.9	1.6	2.0	1.5	1.9	1.0	1.3	2.4	0.9	2.8	2.1	1.5	1.2	2.5	2.6	1.1	3.3	1.4	2.6	3.0
AGE: 13																				
DELTA-P	28.3	7.0*	-1.7	-0.1	-3.9	-11.7*	10.9*	23.2*	-3.5*	15.5*	3.0	-5.0*	-15.1*	10.0*	2.7	2.6	1.6	-7.0*	-3.4	-15.4*
STD ERR OF DP		2.5	1.9	2.4	2.2	1.0	1.1	3.8	0.6	2.3	2.7	1.8	1.8	5.0	4.3	1.8	4.2	2.8	4.5	2.5
STD ERR OF P	1.3	2.7	2.1	3.1	2.4	1.2	1.9	4.2	1.3	2.8	2.8	2.0	2.0	5.2	4.5	2.1	4.2	2.9	5.0	2.4

RA15
OBJ III

$\frac{1}{5}$ is equivalent to what percent?

ANSWER ____________________

Report #: RA15

NAEP #: C50017-23

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17
Package-Exercise:		06-23	11-08
National P-value:			
	RA15	40.85	64.[illegible]5
Timing: (in seconds)			
	Stimulus:	3	3
	Response:	21	21
RA15	Exercise total:	24	24

SCORING GUIDE
RA15
C50017-23

00 = No Response

10 = 20% (% is necessary)

11 = 20 with wrong units or no units

20 = .20

21 = 5%; 5; .05

22 = Other Unacceptable; e.g., .20%; 2%

23 = 25; 25%; .25; .25%

39 = I Don't Know.

EXERCISE: BA15

1/5 is equivalent to what percent?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	2.0	-0.0	0.8	-0.6	0.0	0.2	-0.2	3.7#	-0.6#	0.9	1.6	0.2	-0.8*	4.6#	0.6	-0.9*	0.3	1.5	-0.4	-1.5#
STD ERR OF DP		0.6	0.7	0.5	0.6	0.4	0.4	1.1	0.2	1.6	1.4	0.5	0.3	1.6	1.4	0.4	1.0	1.1	0.7	0.5
STD ERR OF P	0.3	0.7	0.8	0.6	0.6	0.5	0.5	1.2	0.3	1.7	1.5	0.6	0.4	1.7	1.6	0.5	1.1	1.1	0.8	0.4
AGE: 17																				
DELTA-P	1.1	-0.0	-0.4	-0.4	0.9	0.1	-0.1	2.5*	-0.6#	-0.1	-0.5	-0.2	-0.6*	5.8#	-0.8#	-0.6*	-1.1#	0.3	-0.7	-0.8*
STD ERR OF DP		0.4	0.4	0.3	0.6	0.2	0.2	1.0	0.2	0.7	0.4	0.3	0.3	1.6	0.3	0.3	0.3	0.9	0.4	0.4
STD ERR OF P	0.3	0.4	0.5	0.3	0.7	0.4	0.3	1.1	0.2	0.7	0.3	0.4	0.3	1.8	0.2	0.2	0.0	1.0	0.3	0.3
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	40.9	-5.0	-7.0#	1.9	9.6#	1.5	-1.4	-26.0#	4.3#	-10.0	-10.2#	-2.5	11.6#	-22.5#	-8.0	3.2	-8.2*	3.3	-0.5	17.5#
STD ERR OF DP		3.2	2.8	3.2	2.8	1.4	1.3	2.7	0.6	6.4	3.3	1.7	1.5	4.3	8.2	2.5	4.0	4.9	3.8	3.6
P-VALUE	40.9	35.9	33.8	42.8	50.4	42.4	39.5	14.9	45.1	30.8	30.7	38.4	52.4	18.4	32.9	44.0	32.6	44.2	40.3	58.3
STD ERR OF P	1.8	3.5	3.0	4.1	3.0	2.7	1.8	2.4	2.0	7.2	3.9	[illegible]	2.2	4.2	9.0	2.8	4.0	5.0	4.0	3.7
AGE: 17																				
DELTA-P	64.7	-7.6#	-3.3	4.5	4.2	2.8*	-2.9*	-32.2#	6.3#	-17.0#	-18.4#	1.8	10.9#	-31.5#	-5.8	7.2#	0.9	2.9	-1.1	11.5#
STD ERR OF DP		2.3	3.2	2.4	2.5	1.1	1.2	2.9	1.0	3.9	2.6	1.8	1.5	5.2	4.1	2.1	4.5	5.5	3.9	4.1
P-VALUE	64.7	57.1	61.3	69.1	68.8	67.4	61.7	32.4	70.9	47.7	46.2	66.4	75.5	33.2	58.9	71.9	65.5	67.5	63.6	76.1
STD ERR OF P	1.6	2.2	4.0	2.8	2.8	2.0	1.9	3.3	1.6	4.0	2.8	2.4	1.8	5.4	4.3	2.2	4.6	5.8	4.0	4.2
RESPONSE: 10 AGE: 13 TEXT: 20% (% is necessary)																				
DELTA-P	38.1	-6.0*	-7.3#	2.9	9.6#	0.6	-0.5	-25.4#	4.1#	-11.4*	-11.8#	-3.3	12.2#	-21.2#	-7.0	2.3	-8.9*	4.9	-0.5	18.0#
STD ERR OF DP		2.8	2.5	3.1	2.6	1.5	1.4	2.6	0.6	5.0	3.3	1.7	1.4	4.0	8.1	2.3	4.3	4.9	3.4	3.6
STD ERR OF P	1.7	2.9	2.7	4.0	2.8	2.6	1.6	2.4	1.9	5.6	3.5	2.2	2.2	3.8	8.9	2.3	4.4	5.0	3.5	3.7
AGE: 17																				
DELTA-P	62.3	-7.5#	-2.1	3.5	4.1	2.6*	-2.7*	-35.1#	6.7#	-17.4#	-17.5#	1.0	11.8#	-31.2#	-6.2	7.9#	0.9	-0.5	-1.5	13.0#
STD ERR OF DP		2.3	3.2	2.7	2.8	1.2	1.3	2.8	1.0	4.1	2.7	2.0	1.6	5.0	4.3	2.2	4.2	7.4	4.1	4.1
STD ERR OF P	1.7	2.1	3.9	3.4	3.1	2.1	2.1	3.2	1.7	4.1	2.8	2.5	1.9	5.1	4.4	2.3	4.1	7.9	4.3	4.2
RESPONSE: 11 AGE: 13 TEXT: 20 with wrong units or no units																				
DELTA-P	2.8	1.0	0.3	-1.0	-0.1	0.9*	-0.9*	-0.6	0.2	1.4	1.6	0.8	-0.6	-1.3	-0.9	0.9	0.7	-1.6*	-0.1	-0.5
STD ERR OF DP		1.1	0.8	0.7	0.7	0.4	0.4	0.9	0.2	2.1	2.1	0.8	0.6	1.0	1.1	0.8	1.1	0.8	1.1	0.8
STD ERR OF P	0.5	1.4	0.8	0.8	0.8	0.7	0.5	0.9	0.5	2.3	2.3	1.0	0.6	0.9	1.2	1.1	1.2	0.7	1.1	0.9
AGE: 17																				
DELTA-P	2.4	-0.0	-1.2*	1.0	0.1	0.2	-0.2	2.8	-0.5	0.4	-1.0	0.8	-0.9	-0.2	0.5	-0.7	0.0	3.4	0.4	-1.5*
STD ERR OF DP		0.6	0.6	0.9	0.8	0.4	0.4	1.5	0.3	1.3	0.8	0.7	0.5	0.9	1.0	0.5	1.1	3.0	0.9	0.6
STD ERR OF P	0.5	0.5	0.5	1.2	0.9	0.6	0.6	1.8	0.3	1.3	0.7	0.9	0.5	1.1	1.0	0.4	1.1	3.3	1.0	0.5
RESPONSE: 20 AGE: 13 TEXT: .20																				
DELTA-P	2.1	-0.3	0.0	-0.8	1.2	0.5	-0.5	-0.3	0.2	0.7	-0.9	0.5	0.2	-0.9	-1.3*	-0.4	0.6	-0.9	0.7	1.8
STD ERR OF DP		0.6	0.7	0.5	0.7	0.4	0.3	0.9	0.1	1.4	0.9	0.6	0.4	0.7	0.6	0.5	1.2	0.7	1.3	1.1
STD ERR OF P	0.3	0.6	0.8	0.5	0.9	0.5	0.5	0.9	0.4	1.4	0.8	0.8	0.5	0.7	0.5	0.5	1.4	0.6	1.8	1.2
AGE: 17																				
DELTA-P	0.9	-0.3	-0.7*	0.2	0.8	0.2	-0.3	0.8	-0.1	0.6	0.1	-0.1	-0.3	0.4	-0.4	0.2	0.1	0.2	0.1	-0.9#
STD ERR OF DP		0.3	0.3	0.5	0.6	0.2	0.2	0.6	0.1	1.0	0.5	0.4	0.2	0.8	0.5	0.4	0.7	1.0	0.5	0.3
STD ERR OF P	0.3	0.2	0.2	0.7	0.7	0.4	0.2	0.7	0.3	1.2	0.5	0.5	0.3	0.9	0.5	0.5	0.8	1.1	0.6	0.0
RESPONSE: 21 AGE: 13 TEXT: 5%; 5; .05																				
DELTA-P	16.2	-0.2	2.7	-0.9	-1.5	-1.5	1.4	2.6	-0.8	0.9	2.8	0.4	-1.6	8.2	0.8	-1.0	1.3	4.2	1.8	-8.2#
STD ERR OF DP		1.2	1.5	1.1	1.5	1.1	1.0	2.7	0.5	4.3	3.3	1.3	1.0	4.6	2.5	1.1	1.7	3.8	2.3	1.9
STD ERR OF P	0.8	1.3	1.9	1.2	1.7	1.5	1.1	2.8	0.8	4.4	3.3	1.7	1.1	5.0	2.7	1.2	1.5	4.0	2.4	1.9

EXERCISE: RA15

1/5 is equivalent to what percent?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: 17 TEXT: 5%; 5; .05																				
DELTA-P	10.7	0.2	1.8	-1.8	0.3	-0.8	0.8	8.3#	-1.7#	8.5#	6.4#	-1.6	-3.1#	9.0*	0.9	-1.7	-0.7	0.5	-0.2	-3.6
STD ERR OF DP		1.7	1.8	1.3	1.7	0.7	0.8	2.7	0.6	3.4	2.3	1.3	0.9	4.0	2.4	1.2	2.3	2.9	1.7	1.9
STD ERR OF P	0.9	1.8	2.1	1.5	2.0	1.1	1.3	3.1	0.9	3.6	2.5	1.7	0.9	4.6	2.4	1.1	2.3	3.2	1.8	1.8
RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable; e.g., .20%; 2%																				
DELTA-P	24.7	2.0	1.6	0.6	-4.3#	0.5	-0.5	10.9#	-1.8#	5.9	5.8	-0.5	-5.0#	4.5	11.4#	-0.6	-0.8	-5.4#	-1.5	-4.0
STD ERR OF DP		1.7	2.0	1.8	1.5	1.0	0.9	2.7	0.5	4.1	3.9	1.6	1.3	2.7	4.3	1.5	1.9	1.9	2.0	2.6
STD ERR OF P	1.0	1.7	2.4	2.3	1.6	1.5	1.3	2.8	1.2	4.4	4.1	1.9	1.7	2.6	4.6	1.8	1.9	1.9	2.2	2.9
AGE: 17																				
DELTA-P	14.9	4.6#	1.1	-1.0	-3.8*	-0.5	0.5	13.6#	-2.4#	2.9	4.5*	-0.4	-3.4#	12.3#	0.8	-3.5#	0.2	0.4	0.3	-2.4
STD ERR OF DP		1.6	1.5	1.5	1.6	0.8	0.8	2.1	0.5	3.2	2.2	1.2	1.0	3.8	2.3	1.1	2.8	3.2	2.7	2.6
STD ERR OF P	0.9	1.7	1.7	1.9	1.8	1.2	1.3	2.4	1.0	3.0	2.1	1.5	1.4	4.0	2.2	1.2	2.9	3.2	3.0	2.7
RESPONSE: 23 AGE: 13 TEXT: 25; 25%; .25; .25%																				
DELTA-P	2.7	2.2*	-0.9	-0.8	-0.2	0.1	-0.1	3.5*	-0.5	-1.7*	-1.4	1.3*	-0.4	0.5	-1.2	0.1	0.9	1.2	-0.6	-0.8
STD ERR OF DP		0.9	0.6	0.6	0.6	0.4	0.4	1.7	0.3	0.7	0.7	0.5	0.4	1.7	0.8	0.7	1.8	1.1	1.0	0.7
STD ERR OF P	0.4	1.1	0.7	0.7	0.6	0.6	0.5	1.9	0.4	0.6	0.7	0.8	0.6	1.7	0.7	0.8	1.9	1.1	1.1	0.8
AGE: 17																				
DELTA-P	1.9	1.3	-0.2	-0.3	-0.4	-0.7	0.7	0.1	-0.3	0.0	1.8	-0.2	-0.5*	1.5	1.5	-1.3*	0.7	-1.6#	2.0	-1.6#
STD ERR OF DP		0.7	0.7	0.8	0.7	0.4	0.4	0.7	0.2	1.2	1.4	0.6	0.3	1.2	1.4	0.6	1.0	0.5	1.6	0.5
STD ERR OF P	0.4	0.8	0.9	1.0	0.7	0.4	0.7	0.7	0.5	1.3	1.6	0.5	0.5	1.3	1.5	0.4	1.1	0.3	2.0	0.3
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	11.4	1.3	2.8	0.5	-4.8#	-1.3	1.2	5.5#	-0.9#	3.3	2.4	0.5	-4.0#	5.6	-2.4	-0.4	6.1#	-3.9	0.6	-4.7#
STD ERR OF DP		1.8	1.6	1.4	1.2	0.8	0.8	2.2	0.3	3.2	2.5	1.0	0.9	4.1	1.9	1.4	1.9	2.1	2.4	1.5
STD ERR OF P	0.9	2.1	1.9	1.6	1.3	1.3	1.1	2.3	0.9	3.6	2.9	1.1	1.1	4.3	1.7	1.7	2.0	2.1	2.8	1.2
AGE: 17																				
DELTA-P	5.8	1.8	1.8	-1.1	-2.0#	-1.3*	1.3*	7.0#	-1.1#	5.0#	6.2#	0.7	-3.0#	2.6	3.8	-0.3	-0.0	-2.7	-0.3	-2.1
STD ERR OF DP		1.3	0.9	0.8	0.7	0.5	0.6	2.1	0.3	1.9	1.6	0.8	0.5	2.1	2.5	0.6	1.1	1.4	1.1	1.4
STD ERR OF P	0.5	1.5	1.1	0.9	0.7	0.7	0.8	2.3	0.5	2.1	1.9	1.0	0.5	2.2	2.7	0.7	1.2	1.3	1.2	1.5

RB01
OBJ IV

If a + 3 = b and 3 + c = b, then

● a equals c.

○ a is less than c.

○ a is greater than c.

○ there is not enough information to determine the relation between a and b.

○ I don't know.

Report #: RB01

NAEP #: B11007-23

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		13	17
Package-Exercise:		09-27	07-16
National P-value:			
	RB01	56.59	78.83

Timing: (in seconds)			
	Stimulus:	19	17
	Response:	31	31
	I don't know:	5	5
	Pause:	6	6
RB01	Exercise total:	61	59

EXERCISE: RB01

If a + 3 = b and 3 + c = b, then

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	2.0	1.7	1.3	-1.3	-1.7	-0.4	0.4	-0.5	0.1	1.7	-1.0	0.7	-0.9	-1.5	-0.0	0.0	-1.5	-1.3	4.0	-1.4
STD ERR OF DP		2.4	2.4	1.1	1.1	0.5	0.6	1.3	0.2	1.5	0.7	0.6	0.5	1.2	1.9	1.5	1.1	1.1	4.5	1.2
STD ERR OF P	1.1	2.9	3.0	0.3	0.2	0.8	1.5	0.9	1.2	2.4	1.0	1.6	0.6	0.4	1.8	2.0	0.5	0.4	5.2	0.6
AGE: 17																				
DELTA-P	0.2	-0.1	0.0	-0.2	0.2	0.1	-0.1	-0.1	0.0	-0.2	-0.2	-0.1	0.2	-0.2	-0.2	-0.2	0.3	-0.2	0.6	-0.2
STD ERR OF DP		0.2	0.2	0.1	0.3	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.1	0.7	0.1
STD ERR OF P	0.1	0.1	0.2	0.0	0.4	0.3	0.1	0.1	0.2	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.4	0.0	0.8	0.0
RESPONSE: 01* AGE: 13	TEXT: a equals c.																			
DELTA-P	56.6	-7.0*	-2.7	0.6	9.1#	-0.1	0.1	-29.0#	5.2#	-18.2#	-10.2#	0.2	11.7#	-18.6#	-4.5	-1.7	2.6	0.4	-1.8	17.2#
STD ERR OF DP		3.5	2.5	2.8	2.0	1.3	1.5	2.6	0.6	5.1	4.1	1.9	1.6	6.1	3.9	2.0	4.7	4.2	4.8	3.0
P-VALUE	56.6	49.6	53.9	57.2	65.7	56.5	56.7	27.6	61.8	38.4	46.4	56.8	68.3	38.0	52.1	54.9	59.2	56.9	54.8	73.8
STD ERR OF P	1.6	4.2	2.9	3.3	1.8	1.9	2.3	2.3	1.9	5.8	4.1	2.8	1.8	5.7	4.5	2.8	5.1	4.3	5.0	2.5
AGE: 17																				
DELTA-P	78.8	-5.8*	-4.1	4.2*	4.1*	0.3	-0.3	-26.2#	5.9#	-12.9#	-13.9#	1.2	7.0#	-16.1#	-2.4	0.9	1.5	0.3	0.4	10.2#
STD ERR OF DP		2.7	2.1	2.0	1.7	0.9	0.8	2.9	0.8	4.0	3.2	1.4	1.2	4.2	4.0	1.5	3.0	3.5	2.7	3.0
P-VALUE	78.8	73.0	74.8	83.1	82.9	79.1	78.6	52.6	84.7	65.9	65.0	80.1	85.8	62.7	76.4	79.8	80.3	79.1	79.2	89.0
STD ERR OF P	1.2	3.1	2.5	2.3	1.8	1.6	1.4	3.1	1.0	4.4	3.3	2.0	1.5	4.4	4.3	1.8	3.4	3.6	2.7	3.0
RESPONSE: 02 AGE: 13	TEXT: a is less than c.																			
DELTA-P	5.0	1.5	-0.7	0.8	-1.6*	0.1	-0.1	6.2#	-1.1#	5.0*	0.0	-1.0	-1.3*	5.4	-3.2#	0.9	1.9	-0.7	-1.6	-1.8
STD ERR OF DP		1.0	0.9	1.2	0.8	0.4	0.5	1.7	0.3	2.0	2.1	0.7	0.6	3.3	0.9	0.7	2.3	1.4	1.0	1.2
STD ERR OF P	0.6	1.2	0.9	1.5	0.7	0.6	0.8	2.0	0.6	2.1	2.4	0.8	0.7	3.5	0.8	0.9	2.6	1.4	1.0	1.2
AGE: 17																				
DELTA-P	1.4	0.1	1.2	-1.1#	-0.1	0.1	-0.1	3.1#	-0.5#	-1.2#	1.2	0.3	-0.6*	2.3*	0.9	-0.3	-0.7	1.4	-1.1#	-0.5
STD ERR OF DP		0.4	0.7	0.3	0.5	0.3	0.2	1.1	0.2	0.3	0.7	0.3	0.3	1.0	1.1	0.4	0.4	1.8	0.4	0.7
STD ERR OF P	0.3	0.4	0.9	0.2	0.6	0.4	0.4	1.2	0.3	0.2	0.8	0.5	0.3	1.1	1.2	0.4	0.4	2.0	0.2	0.6
RESPONSE: 03 AGE: 13	TEXT: a is greater than c.																			
DELTA-P	4.3	1.6	-0.1	-0.9	-0.5	0.7	-0.8	5.1#	-0.6*	2.6	0.9	0.2	-2.2#	5.1#	1.9	-0.6	-0.1	-0.7	-2.2#	0.6
STD ERR OF DP		1.3	0.8	0.8	0.8	0.4	0.4	1.6	0.3	3.9	1.8	0.6	0.5	2.0	1.6	0.6	1.2	1.0	0.8	1.2
STD ERR OF P	0.5	1.6	0.8	0.8	0.9	0.6	0.7	1.7	0.6	4.2	1.8	0.8	0.4	2.1	2.0	0.7	1.2	1.0	0.8	1.2
AGE: 17																				
DELTA-P	2.1	1.7	-0.5	-0.6	-0.3	0.6	-0.5	4.3#	-0.7#	1.6	2.3*	0.2	-1.1#	3.9#	-1.1	-0.5	1.1	0.9	-0.5	-2.1#
STD ERR OF DP		0.9	0.5	0.6	0.5	0.4	0.3	0.9	0.2	1.1	1.0	0.4	0.4	1.4	0.6	0.4	0.7	1.6	0.6	0.3
STD ERR OF P	0.3	1.0	0.4	0.7	0.6	0.6	0.3	1.1	0.3	1.1	1.1	0.7	0.3	1.6	0.5	0.4	0.7	1.8	0.7	0.0
RESPONSE: 04 AGE: 13	TEXT: there is not enough information to determine the relation between a and b.																			
DELTA-P	27.3	3.0	0.4	1.4	-4.8*	-1.2	1.3	16.9#	-3.2#	10.1#	8.0*	0.8	-5.7#	7.1	5.8	1.6	-2.8	3.0	1.2	-14.1#
STD ERR OF DP		2.8	2.2	2.7	2.1	1.3	1.5	3.1	0.6	3.2	3.8	1.7	1.3	4.6	4.9	1.7	3.1	3.2	4.0	2.7
STD ERR OF P	1.4	3.3	2.5	3.3	2.1	2.1	1.9	3.3	1.6	3.7	4.2	2.4	1.7	4.7	5.5	2.2	3.2	3.2	4.1	2.6
AGE: 17																				
DELTA-P	14.6	4.3	1.7	-1.0	-4.1#	-0.8	0.7	16.9#	-4.2#	13.2#	8.9#	-1.1	-4.7#	5.8	3.4	-0.0	-1.1	-0.2	-0.9	-5.3
STD ERR OF DP		2.2	1.8	1.8	1.3	0.8	0.7	2.6	0.7	3.9	2.8	1.3	1.1	3.3	4.1	1.4	2.7	2.9	1.9	2.9
STD ERR OF P	1.0	2.5	2.1	2.2	1.1	1.3	1.2	2.7	0.8	4.3	2.9	1.7	1.2	3.3	4.5	1.6	2.9	3.0	1.9	2.9
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	4.9	-0.8	1.7	-0.6	-0.5	0.8	-0.9	1.3	-0.4	-1.3	2.3	-0.8	-1.6#	2.4	0.0	-0.2	-0.1	-0.5	0.4	-0.6
STD ERR OF DP		1.0	1.2	1.0	0.9	0.5	0.5	1.3	0.2	1.5	2.0	0.6	0.6	2.3	2.2	0.9	1.4	1.2	1.0	1.4
STD ERR OF P	0.6	1.2	1.5	1.1	1.0	0.8	0.7	1.4	0.6	1.5	2.1	0.8	0.7	2.4	2.5	1.1	1.4	1.2	1.1	1.4

EXERCISE: RB01

If a + 3 = b and 3 + c = b, then

RESPONSE: 09 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.8	-0.2	1.6	-1.4*	0.1	-0.4	0.3	2.2	-0.5	-0.5	1.8	-0.4	-0.8	4.3	-0.6	0.1	-1.1	-2.2*	1.6	-2.0*
STD ERR OF DP		0.8	1.0	0.6	0.9	0.5	0.4	1.3	0.2	0.8	1.4	0.6	0.5	2.4	1.0	0.7	0.7	0.6	1.4	0.6
STD ERR OF P	0.5	0.8	1.2	0.6	1.0	0.6	0.6	1.4	0.5	0.8	1.6	0.8	0.6	2.6	1.0	0.9	0.6	0.4	1.5	0.5

RB02
OBJ I

A. Which number is GREATER?

● 3,000,000
○ 800,000

○ I don't know.

B. Which number is GREATER?

○ 3,000
● 3,200

○ I don't know.

```
Report #:          RB02

NAEP #:            B11010-12

Content Area:      B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective:         I. Recall  and/or  Recognition  of  Definitions,
                      Facts, and Symbols.

Exercise Type:            Multiple part multiple choice
Scoring Type:             Machine
Administration Mode:      Group

Age:                                     9          13
Package-Exercise:                      02-24      08-30
National P-value:
                          RB02A        81.93      95.92
                          RB02B        85.84      96.80

Timing: (in seconds)
                           Stimulus:     6          6
                           Response:    16         16
                      I don't know:      5          5
                              Pause:     6          6
    RB02A               Part total:     33         33
                           Stimulus:     6          6
                           Response:    16         17
                      I don't know:      5          5
                              Pause:     6          6
    RB02B               Part total:     33         34
    RB02            Exercise total:     66         67
```

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
EXERCISE: RB02																				
Part A. Which number is GREATER?																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.5	0.2	0.1	0.1	-0.4*	0.0	-0.0	1.1*	-0.3#	0.5	0.1	0.1	-0.5#	1.2*	-0.1	-0.4#	0.1	0.6	0.1	-0.5#
STD ERR OF DP		0.3	0.3	0.3	0.2	0.1	0.1	0.5	0.1	0.7	0.6	0.3	0.1	0.5	0.4	0.1	0.4	0.6	0.4	0.1
STD ERR OF P	0.1	0.3	0.3	0.3	0.1	0.2	0.2	0.6	0.1	0.8	0.6	0.4	0.0	0.6	0.4	0.1	0.4	0.6	0.5	0.0
AGE: 13																				
DELTA-P	1.1	-1.1	3.2	-1.1	-1.0	-0.2	0.2	-0.4	-0.5	1.6	-1.1	0.4	-0.4	12.4	-1.1	-0.9	-1.0	-1.1	-1.1	-1.1
STD ERR OF DP		1.0	2.9	1.0	1.0	0.1	0.1	0.3	0.4	1.7	1.0	0.3	0.3	11.3	1.0	1.0	1.0	1.0	1.0	1.0
STD ERR OF P	1.0	0.0	3.9	0.0	0.1	0.9	1.1	0.7	0.6	2.6	0.0	1.3	0.7	12.2	0.0	0.2	0.1	0.0	0.0	0.0
RESPONSE: 01* AGE: 9 TEXT: 3,000,000																				
DELTA-P	81.9	-7.2#	1.1	2.1	3.5	-0.9	0.8	-17.6#	3.6#	-8.2	-7.1	0.8	6.3#	-12.6#	-4.3	0.4	3.2	-2.2	1.6	9.4#
STD ERR OF DP		2.4	1.9	2.1	1.7	0.9	0.9	2.2	0.6	4.2	3.7	1.5	1.2	3.2	2.6	1.9	2.3	4.6	2.9	2.5
P-VALUE	81.9	74.7	83.0	84.1	85.4	81.1	82.8	64.3	85.5	73.8	74.9	82.7	88.3	69.3	77.6	82.3	85.1	79.8	83.5	91.3
STD ERR OF P	1.2	2.9	2.0	2.5	2.0	1.7	1.3	2.6	1.2	4.5	3.7	1.8	1.5	3.3	2.6	2.4	2.3	5.0	3.3	2.4
AGE: 13																				
DELTA-P	95.9	1.3	-4.7	2.4*	1.0	-0.1	0.1	-4.0#	1.5#	-0.6	0.9	-0.4	1.9#	-14.2	0.0	1.5	0.9	-0.6	0.9	3.6#
STD ERR OF DP		1.1	2.7	1.1	1.2	0.4	0.4	1.2	0.5	1.9	1.9	0.6	0.5	11.0	2.1	1.1	1.4	1.7	1.9	1.0
P-VALUE	95.9	97.2	91.2	98.3	96.9	95.9	96.0	91.9	97.4	95.3	96.8	95.5	97.8	81.7	95.9	97.4	96.8	95.3	96.8	99.5
STD ERR OF P	1.0	0.7	3.6	0.6	1.0	1.0	1.2	1.6	0.6	2.7	1.8	1.3	0.7	11.8	2.0	0.7	1.2	1.5	1.5	0.4
RESPONSE: 02 AGE: 9 TEXT: 800,000																				
DELTA-P	16.6	6.7#	-0.8	-2.5	-3.0	0.9	-0.9	15.9#	-3.1#	8.4	7.6*	-0.3	-5.2#	10.1#	4.6	0.6	-2.5	-0.3	-2.5	-8.3#
STD ERR OF DP		2.2	1.8	2.0	1.7	0.9	0.8	1.9	0.6	4.2	3.7	1.5	1.2	3.3	2.6	1.8	2.3	4.4	2.7	2.4
STD ERR OF P	1.2	2.6	1.9	2.5	2.0	1.7	1.2	2.3	1.2	4.4	3.7	1.9	1.5	3.5	2.6	2.4	2.3	4.7	3.0	2.3
AGE: 13																				
DELTA-P	2.9	-0.2	1.4	-1.2*	0.1	0.2	-0.2	4.5#	-1.1#	-1.0	0.2	0.1	-1.4#	1.8	1.1	-0.6	0.1	1.5	0.2	-2.5#
STD ERR OF DP		0.7	0.9	0.6	0.9	0.4	0.4	1.2	0.2	0.8	1.8	0.6	0.4	1.5	1.9	0.6	1.0	1.4	1.4	0.5
STD ERR OF P	0.4	0.7	1.1	0.6	1.0	0.6	0.5	1.4	0.4	0.8	1.8	0.8	0.4	1.6	2.0	0.7	1.1	1.5	1.5	0.4
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	1.0	0.3	-0.4	0.2	-0.1	-0.1	0.1	0.6	-0.3*	-0.8#	-0.6	-0.6	-0.7*	1.3	-0.2	-0.5*	-0.9#	1.9*	0.8	-0.6
STD ERR OF DP		0.5	0.3	0.4	0.3	0.2	0.2	0.6	0.1	0.3	0.5	0.3	0.3	1.0	0.6	0.3	0.3	0.9	1.0	0.4
STD ERR OF P	0.2	0.6	0.3	0.5	0.4	0.3	0.3	0.7	0.2	0.2	0.4	0.3	0.2	1.1	0.6	0.2	0.1	0.9	1.2	0.4
AGE: 13																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.2	-0.0	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0
STD ERR OF P	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0
EXERCISE: RB02																				
Part B. Which number is GREATER?																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.8	-0.1	0.5	-0.3	-0.1	0.7#	-0.7#	4.2#	-0.7#	1.1	-0.7	0.1	-0.6	4.0#	-0.6	-1.2#	1.3	0.5	0.0	-1.3#
STD ERR OF DP		0.5	0.8	0.5	0.6	0.3	0.3	1.2	0.2	1.6	0.8	0.5	0.3	1.5	0.8	0.4	1.1	1.3	0.8	0.5
STD ERR OF P	0.3	0.6	0.9	0.5	0.8	0.6	0.3	1.4	0.3	1.7	0.7	0.6	0.5	1.7	0.8	0.3	1.2	1.3	0.9	0.5
AGE: 13																				
DELTA-P	1.3	-1.3	3.0	-0.7	-1.1	-0.1	0.1	-0.6	-0.4	1.4	-1.3	0.6	-0.5	12.3	0.2	-0.9	-1.2	-1.3	-1.3	-1.3
STD ERR OF DP		1.0	2.9	1.1	1.0	0.2	0.2	0.3	0.4	1.7	1.0	0.4	0.3	11.3	1.7	1.0	1.0	1.0	1.0	1.0
STD ERR OF P	1.0	0.0	3.9	0.5	0.1	0.9	1.1	0.7	0.6	2.6	0.0	1.3	0.7	12.2	1.5	0.2	0.1	0.0	0.0	0.0

EXERCISE: RB02

Part B. Which number is GREATER?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 01 AGE: 9	TEXT: 3,000																			
DELTA-P	10.8	2.5	-1.2	-0.0	-1.2	-0.0	0.0	9.9#	-2.2#	3.5	-5.0*	-0.3	-4.5#	8.3#	1.9	-0.7	0.2	2.1	-1.5	-6.0#
STD ERR OF DP		1.6	1.7	1.3	1.6	0.7	0.7	2.5	0.6	2.5	2.0	1.2	0.8	2.6	2.9	1.1	2.4	8.8	1.7	1.5
STD ERR OF P	0.9	1.9	1.9	1.4	1.9	1.1	1.1	2.9	0.9	3.0	1.9	1.6	1.3	3.0	3.1	1.4	2.6	5.1	1.6	1.5
AGE: 13																				
DELTA-P	1.9	-0.1	0.7	-1.0*	0.5	0.2	-0.2	4.9#	-1.0#	0.1	0.3	-0.0	-0.7	2.5	1.0	0.0	-0.7	0.9	-0.6	-1.6#
STD ERR OF DP		0.5	0.6	0.4	0.8	0.3	0.3	1.3	0.3	0.9	0.8	0.4	0.4	1.5	1.1	0.6	0.6	0.9	0.9	0.3
STD ERR OF P	0.3	0.5	0.7	0.4	1.0	0.5	0.4	1.5	0.2	0.9	0.9	0.6	0.3	1.6	1.2	0.6	0.6	1.0	1.0	0.3
RESPONSE: 02* AGE: 9	TEXT: 3,200																			
DELTA-P	85.8	-3.2	0.2	0.9	1.8	-0.6	0.5	-16.2#	3.5#	-6.9*	5.0	1.5	6.4#	-14.1#	-2.6	2.9*	-1.0	-4.2	0.8	8.7#
STD ERR OF DP		1.8	1.7	1.4	1.7	0.8	0.8	2.5	0.6	2.9	2.6	1.3	1.0	2.9	3.5	1.3	2.2	5.1	1.9	1.7
P-VALUE	85.8	82.7	86.1	86.8	87.6	85.3	86.4	69.7	89.3	78.9	90.9	87.4	92.3	71.8	83.2	88.7	84.9	81.6	86.7	94.5
STD ERR OF P	1.0	2.2	1.9	1.5	2.1	1.2	1.3	3.0	0.9	3.2	2.7	1.7	1.3	3.2	3.9	1.5	2.3	5.3	2.0	1.6
AGE: 13																				
DELTA-P	96.8	1.4	-3.9	1.8	0.7	-0.1	0.1	-4.5#	1.4#	-1.5	1.1	-0.5	1.2*	-14.7	-1.1	0.9	1.9	0.0	1.9	2.9#
STD ERR OF DP		1.1	2.8	1.1	1.2	0.3	0.3	1.4	0.4	1.9	1.4	0.5	0.5	10.5	2.0	1.1	1.1	1.4	1.2	1.0
P-VALUE	96.8	98.2	92.9	98.6	97.5	96.7	96.9	92.3	98.2	95.3	97.9	96.3	98.0	82.1	95.7	97.7	98.7	96.8	98.7	99.7
STD ERR OF P	1.0	0.5	3.7	0.7	1.0	1.0	1.1	1.6	0.6	2.7	0.9	1.3	0.7	11.4	1.[illegible]	0.7	0.6	1.0	1.0	0.3
RESPONSE: 09 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	1.6	0.8	0.4	-0.6	-0.5	-0.2	0.2	2.1*	-0.5#	2.4	0.7	-1.3#	-1.3#	1.8	1.3	-0.9*	-0.5	1.6	0.7	-1.4#
STD ERR OF DP		0.8	0.5	0.5	0.5	0.3	0.3	1.0	0.2	2.4	1.8	0.3	0.4	1.0	1.7	0.4	0.7	1.3	1.0	0.4
STD ERR OF P	0.3	1.0	0.4	0.5	0.5	0.4	0.5	1.1	0.3	2.5	1.9	0.2	0.2	1.1	1.9	0.3	0.5	1.4	1.1	0.2
AGE: 13																				
DELTA-P	0.1	-0.1	0.2	-0.1	-0.1	-0.0	0.0	0.1	-0.0	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1	0.0	-0.1	0.4	-0.1	-0.1
STD ERR OF DP		0.1	0.2	0.1	0.1	0.0	0.0	0.2	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.3	0.1	0.1
STD ERR OF P	0.1	0.0	0.2	0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.3	0.0	0.0

Do each of the problems below.

A. 3 + 0 =

A. ANSWER ____________

B. 3 × 0 =

B. ANSWER ____________

C. 3 − 0 =

C. ANSWER ____________

Report #: R803

NAEP #: 812005-12

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple part short answer
Scoring Type: Semi-professional
Administration Mode: Group

		9	13
Age:			
Package-Exercise:		06-13	05-08
National P-value:			
	R803A	96.26	98.10
	R803B	81.49	98.75
	R803C	87.76	98.75

Timing: (in seconds)

	Introduction:	3	3
	Stimulus:	3	3
	Response:	16	15
R803A	Part total:	19	18
	Stimulus:	3	3
	Response:	17	15
R803B	Part total:	20	18
	Stimulus:	6	3
	Response:	14	16
R803C	Part total:	20	19
R803	Exercise total:	62	58

SCORING GUIDE
R803
812005-12

Part A. 00 = No Response

10 = 3

20 = 0

21 = Other Unacceptable

39 = I Don't Know.

Part B. 00 = No Response

10 = 0

20 = 3

21 = Other Unacceptable

39 = I Don't Know.

Part C. 00 = No Response

10 = 3

20 = 0

21 = Other Unacceptable

39 = I Don't Know.

EXERCISE: RB03

Part A. 3 + 0 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	0.3	0.1	-0.3*	-0.3*	0.4	0.2*	-0.2*	0.1	-0.1	-0.3*	-0.3*	-0.0	-0.3*	1.0	-0.3*	-0.3*	0.1	0.5	-0.3*	-0.3*
STD ERR OF DP		0.2	0.1	0.1	0.3	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.1	0.6	0.1	0.1	0.4	0.7	0.1	0.1
STD ERR OF P	0.1	0.3	0.0	0.0	0.4	0.2	0.1	0.3	0.2	0.0	0.0	0.3	0.0	0.6	0.0	0.0	0.4	0.8	0.0	0.0
AGE: 13																				
DELTA-P	0.1	0.1	-0.1	0.0	0.0	-0.0	0.0	0.5	-0.1	-0.1	-0.1	-0.0	-0.1	0.5	-0.1	-0.1	0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.0	0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0
RESPONSE: 10* AGE: 9	TEXT: 3																			
DELTA-P	94.3	-2.2#	1.7*	0.4	0.3	-1.6#	1.7#	-5.3#	1.0#	-3.4	1.2	0.1	1.5	-7.0*	-0.8	0.6	1.5*	-0.4	-0.3	3.0#
STD ERR OF DP		0.8	0.7	0.7	0.7	0.5	0.5	1.6	0.4	2.0	1.4	0.8	0.8	3.2	1.4	0.6	0.7	2.0	1.7	1.1
P-VALUE	94.3	92.1	95.9	94.7	94.6	92.6	95.9	88.9	95.3	90.8	95.4	94.3	95.7	87.3	93.4	94.9	95.8	93.9	94.0	97.2
STD ERR OF P	0.4	0.9	0.8	0.8	0.8	0.6	0.7	1.7	0.4	2.0	1.3	0.9	0.9	3.3	1.4	0.6	0.8	2.1	1.7	1.2
AGE: 13																				
DELTA-P	98.1	-1.0*	0.4	0.4	-0.0	-0.2	0.2	-3.8#	0.6#	-0.9	-0.7	0.3	0.9#	-5.0#	0.0	0.7*	-1.1	0.8	0.9	0.6
STD ERR OF DP		0.5	0.4	0.4	0.5	0.3	0.3	1.0	0.2	0.8	1.2	0.4	0.3	1.4	0.8	0.3	0.8	0.8	0.5	0.8
P-VALUE	98.1	97.2	98.5	98.5	98.1	97.9	98.4	94.4	98.8	97.3	97.4	98.4	99.0	93.1	98.1	98.8	97.1	99.0	99.1	98.8
STD ERR OF P	0.3	0.5	0.4	0.5	0.5	0.5	0.4	1.1	0.2	0.7	1.3	0.4	0.4	1.5	0.9	0.3	0.9	0.9	0.5	0.7
RESPONSE: 20 AGE: 9	TEXT: 0																			
DELTA-P	4.9	1.3	-1.3	0.1	-0.3	1.3#	-1.3#	3.9#	-0.7*	3.9*	-1.9	0.4	-1.1	4.0	1.1	-0.1	-1.4	-0.7	1.0	-2.1
STD ERR OF DP		0.7	0.7	0.6	0.7	0.5	0.5	1.3	0.3	1.9	1.6	0.7	0.8	2.7	1.2	0.6	0.7	2.0	1.6	1.1
STD ERR OF P	0.4	0.8	0.7	0.8	0.8	0.6	0.6	1.4	0.4	1.9	1.5	0.9	0.8	2.8	1.1	0.6	0.8	2.1	1.7	1.2
AGE: 13																				
DELTA-P	1.7	0.8	-0.4	-0.3	0.1	0.2	-0.2	3.2#	-0.6#	1.0	0.9	-0.3	-0.8#	4.7#	0.2	-0.5	0.6	-0.7	-0.9	-0.5
STD ERR OF DP		0.5	0.4	0.4	0.5	0.3	0.3	1.0	0.2	0.8	1.2	0.4	0.3	1.5	0.8	0.3	0.8	0.8	0.5	0.8
STD ERR OF P	0.3	0.6	0.4	0.5	0.5	0.5	0.4	1.2	0.2	0.7	1.3	0.4	0.3	1.6	0.9	0.3	0.9	0.9	0.5	0.7
RESPONSE: 21 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	0.4	1.0*	-0.3	-0.3	-0.5#	0.3*	-0.3*	1.0	-0.2	-0.0	1.2	-0.3	-0.2	1.6	0.2	-0.1	-0.0	-0.1	-0.5#	-0.5#
STD ERR OF DP		0.4	0.2	0.2	0.2	0.1	0.1	0.6	0.1	0.4	0.9	0.2	0.2	1.0	0.6	0.2	0.4	0.3	0.2	0.2
STD ERR OF P	0.2	0.6	0.1	0.2	0.0	0.3	0.1	0.7	0.1	0.4	1.0	0.2	0.2	1.1	0.6	0.2	0.4	0.4	0.0	0.0
AGE: 13																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	0.1	-0.0	0.1	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
STD ERR OF P	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	0.2	-0.2	0.1	-0.0	0.1	-0.1	0.1	0.3	-0.1	-0.2	-0.2	-0.2	0.1	0.4	-0.2	-0.2	-0.2	0.6	-0.1	-0.2
STD ERR OF DP		0.1	0.2	0.1	0.2	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.2	0.5	0.1	0.1	0.1	0.5	0.1	0.1
STD ERR OF P	0.1	0.0	0.3	0.1	0.3	0.1	0.2	0.5	0.1	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.6	0.1	0.0
AGE: 13																				
DELTA-P	0.0	0.1	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.3	-0.0	-0.0	-0.0
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0
STD ERR OF P	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0

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                  NATIONAL |          REGION              |     SEX      |     RACE     |      PARENTAL EDUCATION       |          SIZE-AND-TYPE OF COMMUNITY
                           | NORTH                  SOUTH |              |              |         SOME   GRAD   POST    | LOW   EXTREME SMALL MEDIUM MAIN  URBAN  HIGH
                           | EAST   WEST  CENTRAL   EAST  | MALE  FEMALE | BLACK  WHITE | NO HS   HS     HS     HS     | METRO RURAL   PLACES CITY  BIG CTY FRINGE METRO

EXERCISE: 0803
Part B.  3 x 0 =

RESPONSE:  00     AGE:  9      TEXT:  No Response.

   DELTA-P            0.3      0.0   -0.1   -0.3*   0.4      0.2   -0.2      0.1   -0.1     -0.1*   0.4   -0.1*  -0.1*     1.4   -0.1*  -0.2   -0.1*   0.3   -0.3*  -0.0
   STD ERR OF DP               0.2    0.2    0.1    0.3      0.1    0.1      0.4    0.1      0.1    0.6    0.1    0.1      0.9    0.1    0.1    0.1    0.7    0.1    0.3
   STD ERR OF P       0.1      0.3    0.2    0.0    0.4      0.3    0.1      0.4    0.1      0.0    0.7    0.0    0.0      0.8    0.0    0.1    0.0    0.3    0.0    0.3

                  AGE: 13

   DELTA-P            0.1      0.1   -0.0    0.0   -0.0     -0.0    0.0      0.5   [illegible] -0.1  0.0   -0.0   -0.1      0.5   -0.1   -0.1    0.1   -0.1   -0.1   -0.1
   STD ERR OF DP               0.1    0.0    0.1    0.1      0.0    0.0      0.1   [illegible]  0.0  0.1    0.1    0.0      0.4    0.0    0.0    0.2    0.3    0.0    0.0
   STD ERR OF P       0.0      0.1    0.0    0.1    0.1      0.1    0.1      0.3   [illegible]  0.0  0.1    0.1    0.0      0.4    0.0    0.0    0.2    0.3    0.0    0.0

RESPONSE:  10*    AGE:  9      TEXT:  0

   DELTA-P           81.5     -3.7*   4.5*  -0.1   -0.0     -2.2*   2.3*    -9.3*   2.3*   -10.9*  -5.5    1.5    5.7*    -7.3*  -2.8   -1.6   -0.9   -4.3    6.7*   7.7*
   STD ERR OF DP               1.7    1.9    1.6    1.7      0.8    0.8      2.6    0.7      4.3    4.5    1.5    1.4      3.5    3.4    1.6    2.0    3.2    2.0    1.9
   P-VALUE           81.5     77.8   86.0   81.4   81.5     79.3   83.8     72.2   83.8     70.7   76.0   83.0   87.2     74.2   78.7   79.9   80.6   77.2   88.2   89.2
   STD ERR OF P       1.0      1.4    2.1    1.9    2.1      1.4    1.2      2.8    1.0      4.2    4.6    2.1    1.5      3.7    3.9    1.4    2.0    3.5    2.0    2.3

                  AGE: 13

   DELTA-P           94.8     -2.0    0.9    0.4    0.3      0.0   -0.0     -6.7*   1.0*    -0.5   -1.8    0.4    1.7*    -6.6*   1.6   -0.9   -3.7    1.1    3.7*   3.0*
   STD ERR OF DP               1.5    0.8    1.0    1.1      0.6    0.6      1.8    0.3      1.6    1.6    0.7    0.6      2.5    1.5    0.8    2.2    1.4    1.1    1.3
   P-VALUE           94.8     92.7   95.6   95.2   95.1     94.8   94.7     88.0   95.7     94.3   93.0   95.2   96.5     88.1   96.4   93.9   91.1   95.9   98.4   97.9
   STD ERR OF P       0.6      2.0    0.7    1.2    1.2      0.7    1.0      1.7    0.6      1.7    1.6    0.8    0.8      2.7    1.5    1.0    2.6    1.4    0.9    1.2

RESPONSE:  20     AGE:  9      TEXT:  3

   DELTA-P           16.1      4.0*  -3.6*   0.5   -0.6      1.3   -1.3      7.7*  -1.9*     9.9*   6.5   -3.7   -4.2*     3.2    2.7    1.0    2.2    2.4   -5.3*  -6.5*
   STD ERR OF DP               1.4    1.7    1.4    1.5      0.8    0.8      2.6    0.7      3.8    4.4    1.4    1.2      2.5    3.3    1.5    1.9    2.6    1.8    1.8
   STD ERR OF P       0.9      1.4    2.0    1.8    1.7      1.3    1.1      2.8    0.9      3.7    4.5    1.8    1.4      2.6    3.7    1.6    2.0    3.0    1.7    1.8

                  AGE: 13

   DELTA-P            5.1      1.8   -0.8   -0.4   -0.3     -0.1    0.1      6.2*  -0.9*     0.6    1.9   -1.0   -1.6*     6.3*  -1.5    1.0    3.2   -1.1   -3.5*  -2.9*
   STD ERR OF DP               1.7    0.8    1.0    1.1      0.6    0.6      1.4    0.3      1.5    1.5    0.7    0.6      2.5    1.5    0.8    2.2    1.4    1.1    1.3
   STD ERR OF P       0.6      2.0    0.7    1.2    1.1      0.7    1.0      1.7    0.6      1.7    1.6    0.8    0.8      2.7    1.5    1.0    2.6    1.4    0.9    1.2

RESPONSE:  21     AGE:  9      TEXT:  Other Unacceptable

   DELTA-P            1.8      1.0*  -0.7   -0.0   -0.3      1.0*  -1.0*     0.9   -0.3      1.6   -1.0   -0.3   -1.1*     1.7    0.7    0.2   -0.6*   0.8   -1.6*  -0.8
   STD ERR OF DP               0.4    0.4    0.4    0.5      0.3    0.3      0.7    0.2      1.2    0.7    0.5    0.3      1.1    0.9    0.4    0.3    0.8    0.3    0.6
   STD ERR OF P       0.2      0.5    0.4    0.4    0.6      0.5    0.2      0.8    0.2      1.3    0.6    0.6    0.3      1.3    0.9    0.5    0.2    0.9    0.2    0.7

                  AGE: 13

   DELTA-P            0.0      0.1    0.0   -0.1   -0.0      0.0   -0.0      0.1   -0.0     -0.1   -0.1    0.1   -0.1     -0.1   -0.1   -0.0    0.1    0.1   -0.1   -0.1
   STD ERR OF DP               0.1    0.1    0.0    0.0      0.0    0.0      0.1    0.0      0.0    0.0    0.1    0.0      0.0    0.0    0.0    0.1    0.2    0.0    0.0
   STD ERR OF P       0.0      0.1    0.1    0.0    0.0      0.1    0.0      0.1    0.0      0.0    0.0    0.1    0.0      0.0    0.0    0.0    0.1    0.2    0.0    0.0

RESPONSE:  39     AGE:  9      TEXT:  I Don't Know.

   DELTA-P            0.4     -0.3   -0.1   -0.2    0.5     -0.2*   0.2*     0.5   -0.1     -0.4*  -0.4*  -0.2*  -0.1      1.1   -0.4*  -0.4*  -0.4*   0.6    0.5   -0.4*
   STD ERR OF DP               0.2    0.2    0.2    0.4      0.1    0.1      0.4    0.1      0.1    0.1    0.1    0.2      0.8    0.1    0.1    0.1    0.5    0.6    0.1
   STD ERR OF P       0.1      0.1    0.3    0.1    0.5      0.1    0.3      0.4    0.2      0.0    0.0    0.1    0.2      0.8    0.0    0.0    0.0    0.6    0.7    0.0

                  AGE: 13

   DELTA-P            0.0      0.1   -0.0   -0.0   -0.0      0.0   -0.0     -0.0    0.0     -0.0   -0.0   -0.0    0.1     -0.0   -0.0   -0.0    0.3   -0.0   -0.0   -0.0
   STD ERR OF DP               0.1    0.0    0.0    0.0      0.0    0.0      0.0    0.0      0.0    0.0    0.0    0.1      0.0    0.0    0.0    0.3    0.0    0.0    0.0
   STD ERR OF P       0.0      0.2    0.0    0.0    0.0      0.1    0.0      0.0    0.1      0.0    0.0    0.0    0.1      0.0    0.0    0.0    0.3    0.0    0.0    0.0
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                          NATION |          REGION              |     SEX       |     RACE       |      PARENTAL EDUCATION         |          SIZE-AND-TYPE OF COMMUNITY
                                 | SOUTH                  NORTH |               |                |            SOME   GRAD    POST  |  LOW  EXTREME SMALL  MEDIUM  MAIN   URBAN   HIGH
                          -------|__EAST__WEST_CENTRAL__EAST__|__MALE__FEMALE_|_BLACK__WHITE__|_NO HS____HS_____HS______HS___|_METRO__RURAL__PLACES__CITY_BIG CTY_FRINGE_METRO_

EXERCISE: RB03

Part C.  3 - 0 =

RESPONSE:  00     AGE:  9      TEXT:  No Response.

    DELTA-P                0.4     0.1  -0.4*  -0.3    0.5     0.2  -0.2     0.4  -0.1    -0.4*   1.3   -0.1   -0.2     1.6   -0.4*  -0.4*   0.0    0.4    0.0   -0.4*
    STD ERR OF DP                  0.3   0.2    0.2    0.4     0.1   0.1     0.4   0.1     0.2    1.1    0.2    0.1     0.8    0.2    0.2    0.4    0.7    0.4    0.2
    STD ERR OF P           0.2     0.3   0.0    0.1    0.5     0.2   0.1     0.5   0.2     0.0    1.2    0.3    0.2     0.9    0.0    0.0    0.4    0.8    0.4    0.0

                  AGE: 13

    DELTA-P                0.1     0.1  -0.1   -0.0   -0.0    -0.0   0.0     0.6  -0.1*   -0.1*  -0.0   -0.0   -0.1*    0.4   -0.1*  -0.1    0.2   -0.1*  -0.1*  -0.1*
    STD ERR OF DP                  0.1   0.1    0.1    0.1     0.0   0.0     0.3   0.0     0.0    0.1    0.1    0.0     0.4    0.0    0.1    0.2    0.0    0.0    0.0
    STD ERR OF P           0.0     0.2   0.0    0.1    0.1     0.1   0.1     0.3   0.0     0.0    0.1    0.1    0.0     0.4    0.0    0.0    0.2    0.0    0.0    0.0

RESPONSE:  10*    AGE:  9      TEXT:  3

    DELTA-P               87.8    -2.3   0.7    0.7    0.8    -1.3   1.4   -11.5*  2.4*   -0.1   -3.0    0.2    3.1*  -10.8*  -1.4    1.0    3.1   -1.9   -0.3    4.9*
    STD ERR OF DP                  1.6   1.5    1.4    1.2     0.8   0.8     2.5   0.7     2.8    3.6    1.4    0.9     4.2    2.4    1.3    2.3    2.6    2.0    1.8
    P-VALUE               87.8    85.5  88.5   88.4   88.6    86.5  89.1    76.3  90.2    87.6   84.8   87.5   90.8    76.9   86.3   88.7   90.3   85.9   87.4   92.7
    STD ERR OF P           0.8     1.8   1.7    1.6    1.4     1.1   1.1     2.9   0.8     2.8    3.8    1.7    1.1     4.4    2.5    1.6    2.7    2.6    1.8    1.7

                  AGE: 13

    DELTA-P               94.2    -2.7*  0.2    1.0    1.0    -1.0   1.0    -8.6*  1.5*   -6.1*  -4.2    0.7    2.3*   -6.9*  -2.0   -0.2   -0.9    2.2    1.0    3.9*
    STD ERR OF DP                  1.2   0.9    0.9    0.8     0.5   0.6     1.8   0.4     2.9    2.2    0.7    0.5     2.2    1.7    0.9    1.2    1.6    1.4    0.9
    P-VALUE               94.2    91.5  94.4   95.1   95.2    93.2  95.1    85.6  95.7    88.0   90.0   94.8   96.5    87.3   92.2   94.0   93.3   96.3   95.2   98.1
    STD ERR OF P           0.6     1.4   1.0    1.1    0.8     0.9   0.6     2.0   0.5     3.2    2.4    0.8    0.5     2.3    1.9    1.1    1.1    1.6    1.5    0.7

RESPONSE:  20     AGE:  9      TEXT:  0

    DELTA-P               11.0     1.6  -0.5   -0.2   -0.9     0.8  -0.8     9.4*  -1.9*   0.2    1.9    0.1   -2.4*    6.8    2.1   -0.4   -3.1    1.1    1.0   -3.7*
    STD ERR OF DP                  1.5   1.5    1.2    1.3     0.7   0.8     2.6   0.6     2.7    3.4    1.8    0.9     4.2    2.3    1.3    2.2    2.5    2.0    1.8
    STD ERR OF P           0.8     1.7   1.7    1.5    1.5     1.1   1.1     3.0   0.8     2.7    3.7    1.7    1.1     4.4    2.5    1.5    2.8    2.5    1.9    1.7

                  AGE: 13

    DELTA-P                5.6     2.4  -0.1   -1.1   -0.8     0.9  -0.9     8.0*  -1.4*   6.8*   4.3   -0.8   -2.2*    6.6*   2.3    0.2    0.1   -1.9   -1.0   -3.7*
    STD ERR OF DP                  1.3   0.9    0.9    0.8     0.5   0.5     1.8   0.4     2.9    2.2    0.7    0.5     2.3    1.7    0.8    1.1    1.6    1.4    0.9
    STD ERR OF P           0.6     1.6   1.0    1.0    0.8     0.9   0.7     2.1   0.5     3.2    2.8    0.4    0.5     2.4    1.9    1.0    1.1    1.6    1.5    0.7

RESPONSE:  21     AGE:  9      TEXT:  Other Unacceptable

    DELTA-P                0.7     0.7   0.0   -0.2   -0.5*    0.5*  -0.5*    1.4  -0.3     0.5   -0.1    0.0   -0.5*    2.0   -0.1    0.0    0.2   -0.3   -0.6*  -0.7*
    STD ERR OF DP                  0.4   0.3    0.3    0.2     0.2   0.2     0.8   0.2     0.9    0.6    0.3    0.2     1.3    0.6    0.3    0.3    0.3    0.2    0.2
    STD ERR OF P           0.2     0.6   0.3    0.4    0.2     0.3   0.1     0.9   0.2     0.9    0.6    0.4    0.1     1.4    0.6    0.4    0.2    0.4    0.1    0.0

                  AGE: 13

    DELTA-P                0.1    -0.0  -0.1    0.2   -0.1     0.0  -0.0     0.1   0.0    -0.1   -0.0    0.2   -0.1    -0.1   -0.1    0.1    0.2   -0.1    0.0   -0.1
    STD ERR OF DP                  0.1   0.1    0.1    0.1     0.1   0.1     0.2   0.0     0.1    0.1    0.1    0.1     0.1    0.1    0.1    0.2    0.1    0.2    0.1
    STD ERR OF P           0.1     0.1   0.1    0.2    0.0     0.1   0.1     0.2   0.1     0.0    0.1    0.2    0.1     0.0    0.0    0.2    0.3    0.0    0.2    0.0

RESPONSE:  39     AGE:  9      TEXT:  I Don't Know.

    DELTA-P                0.2    -0.2   0.1   -0.0    0.1    -0.1   0.1     0.3  -0.1    -0.2   -0.2   -0.2    0.1     0.4   -0.2   -0.2   -0.2    0.6   -0.1   -0.2
    STD ERR OF DP                  0.1   0.2    0.1    0.2     0.1   0.1     0.4   0.1     0.1    0.1    0.1    0.2     0.5    0.1    0.1    0.1    0.5    0.1    0.1
    STD ERR OF P           0.1     0.0   0.3    0.1    0.3     0.1   0.2     0.5   0.1     0.0    0.0    0.0    0.2     0.6    0.0    0.0    0.0    0.6    0.1    0.0

                  AGE: 13

    DELTA-P                0.0     0.1  -0.0   -0.0   -0.0     0.0  -0.0    -0.0   0.0    -0.0   -0.0   -0.0    0.1    -0.0   -0.0   -0.0    0.3   -0.0   -0.0   -0.0
    STD ERR OF DP                  0.1   0.0    0.0    0.0     0.0   0.0     0.0   0.0     0.0    0.0    0.0    0.1     0.0    0.0    0.0    0.3    0.0    0.0    0.0
    STD ERR OF P           0.0     0.2   0.0    0.0    0.0     0.1   0.0     0.0   0.1     0.0    0.0    0.0    0.1     0.0    0.0    0.0    0.3    0.0    0.0    0.0
```

BB04
OBJ II

Which one of the following is equal to 3 X 5?

○ 3 + 3 + 3

○ 5 + 5 + 5 + 5 + 5

● 3 + 3 + 3 + 3 + 3

○ 3 + 5 + 3 + 5 + 3 + 5

○ I don't know.

Report #: BB04

NAEP #: B12008-1

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		9
Package-Exercise:		05-28
National P-value:		
	BB04	73.29

Timing: (in seconds)

	Stimulus:	7
	Response:	31
	I don't know:	5
	Pause:	6
BB04	Exercise total:	49

EXERCISE: 8804

Which one of the following is equal to 3 x 5?

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.3	0.5	-0.2	-0.2	-0.0	0.0	-0.0	0.8	-0.1	-0.3*	-0.1	-0.0	-0.0	0.4	-0.3*	0.2	-0.3*	0.2	-0.3*	-0.3*
STD ERR OF DP		0.4	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.1	0.3	0.2	0.1	0.3	0.1	0.3	0.1	0.4	0.1	0.1
STD ERR OF P	0.1	0.5	0.1	0.1	0.2	0.3	0.1	0.6	0.1	0.0	0.2	0.3	0.2	0.4	0.0	0.4	0.0	0.4	0.0	0.0
RESPONSE: 01 AGE: 9 TEXT: 3 + 3 + 3																				
DELTA-P	6.0	0.4	0.5	-1.0	0.1	0.2	-0.2	4.9*	-0.8*	2.9	4.0	-0.8	-0.5	5.4	1.3	-0.1	-2.6	-0.3	0.5	-1.8
STD ERR OF DP		1.0	1.0	0.9	0.9	0.6	0.6	1.9	0.4	2.0	4.0	1.1	0.8	2.9	1.5	0.8	1.4	1.4	1.6	1.1
STD ERR OF P	0.6	1.2	1.2	1.1	0.9	0.9	0.7	2.1	0.6	2.2	4.1	1.2	1.1	3.1	1.5	1.0	1.5	1.4	1.7	1.1
RESPONSE: 02 AGE: 9 TEXT: 5 + 5 + 5 + 5 + 5																				
DELTA-P	3.8	0.7	1.1	-0.3	-1.5	-0.3	0.3	3.1*	-0.6*	-2.3*	0.0	0.0	-0.4	2.3	-1.5	1.3	-1.0	0.6	-2.3*	-2.1*
STD ERR OF DP		0.6	0.8	0.6	0.8	0.4	0.4	1.1	0.3	0.9	1.6	0.3	0.5	1.7	0.8	0.7	1.0	0.3	0.3	0.9
STD ERR OF P	0.4	0.6	1.0	0.6	1.0	0.4	0.7	1.2	0.5	0.9	1.7	0.3	0.6	1.8	0.8	1.0	1.0	0.3	0.7	0.9
RESPONSE: 03* AGE: 9 TEXT: 3 + 3 + 3 + 3 + 3																				
DELTA-P	73.3	-7.3*	-0.9	3.4	4.9*	0.1	-0.1	-21.9*	5.0*	-9.7*	-8.1	4.6*	7.0*	-15.1*	-5.8*	-3.3*	5.3	-1.9	8.0*	12.3*
STD ERR OF DP		2.6	1.8	1.9	1.8	1.1	1.1	2.9	0.9	4.1	6.5	2.3	1.6	3.8	2.5	1.6	3.6	4.1	2.8	2.6
P-VALUE	73.3	66.0	72.4	76.7	78.1	73.4	73.2	51.4	78.3	63.6	65.2	77.9	80.3	58.2	67.5	70.0	79.1	71.4	81.3	95.6
STD ERR OF P	1.2	3.1	1.9	2.1	2.0	1.8	1.4	3.3	1.3	4.6	6.1	2.5	1.4	4.1	2.7	2.0	3.6	4.4	3.0	2.5
RESPONSE: 04 AGE: 9 TEXT: 3 + 5 + 3 + 5 + 3 + 5																				
DELTA-P	10.4	4.0*	-0.8	-0.3	-3.0*	-0.3	0.3	9.5*	-2.2*	6.5	5.3	-1.7	-1.9	4.4	4.6*	2.0	-2.9*	-0.4	-3.8*	-4.5*
STD ERR OF DP		1.7	1.3	1.5	1.1	0.7	0.7	2.1	0.5	3.5	4.4	1.1	1.2	3.2	2.3	1.2	1.4	1.3	1.6	1.5
STD ERR OF P	0.8	2.0	1.5	1.8	1.1	1.1	1.0	2.3	1.0	3.8	4.3	1.3	1.3	3.3	2.5	1.7	1.2	1.9	1.6	1.4
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	6.3	1.7	0.3	-1.6*	-0.3	0.2	-0.2	3.6*	-1.3*	2.9	-1.1	-2.1*	-3.7*	2.1	1.3	-0.1	1.0	2.2	-2.1	-3.6*
STD ERR OF DP		1.0	1.0	0.8	1.2	0.5	0.5	1.6	0.4	3.0	2.2	0.9	0.7	1.6	2.1	0.9	1.5	1.9	1.4	0.9
STD ERR OF P	0.6	1.2	1.2	0.8	1.5	0.8	0.8	1.8	0.6	3.2	2.3	0.8	0.5	1.8	2.1	1.0	1.6	2.2	1.4	0.8

RB05
OBJ IV

Let the symbol * mean "subtract the sum of two numbers from their product." For example:

2 * 3 = (2 X 3) - (2 + 3)

Using this definition,

4 * 5 =

ANSWER ____________________

Report #: RB05

NAEP #: B12010-234

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		09-15	10-25	03-26
National P-value:				
	RB05	71.59	79.54	61.66
Timing: (in seconds)				
	Stimulus:	21	19	20
	Response:	31	32	*
RB05	Exercise total:	52	51	*

*Time not limited by paced tape.

SCORING GUIDE
RB05
B12010-234

00 = No Response

10 = 11

11 = Correct process with no answer or wrong answer; e.g., (4 x 5) - (4 + 5); (5 X 4) - (5 + 4); 4 x 5 - 4 - 5

12 = Correct process but transcription error or number interchanged; e.g., (4 X 2) - (4 + 2); (5 x 3) - (5 + 3); (4 X 5) - (4 + 2)

20 = 1

21 = Other Unacceptable; e.g., copies example

39 = I Don't Know.

EXERCISE: RB05

Let the symbol * mean "subtract the sum of two numbers from their product." For example: 2 * 3 = (2 x 3) - (2 + 3) Using this definition, 4 * 5 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.5	-0.1	0.9	-0.6	-0.3	0.2	-0.2	1.0	-0.4*	0.3	0.6	0.6	-1.0#	3.5	-1.5#	-0.4	0.8	1.2	-0.3	-0.8
STD ERR OF DP		0.5	0.7	0.4	0.5	0.2	0.2	1.0	0.2	1.2	1.1	0.4	0.3	2.1	0.3	0.4	0.9	1.4	0.6	0.6
STD ERR OF P	0.3	0.6	0.8	0.4	0.6	0.4	0.4	1.0	0.3	1.3	1.2	0.6	0.2	2.2	0.0	0.3	0.9	1.5	0.6	0.6
AGE: 17																				
DELTA-P	0.9	-0.0	-0.5	-0.3	0.9	-0.2	0.2	1.3	-0.4	-0.5	-0.2	-0.3	-0.4	1.7	-0.6	-0.3	-0.3	3.7#	-0.9#	-0.9#
STD ERR OF DP		0.5	0.3	0.3	0.6	0.3	0.2	0.9	0.2	0.4	0.5	0.3	0.3	1.3	0.4	0.3	0.5	1.4	0.3	0.3
STD ERR OF P	0.3	0.5	0.3	0.3	0.8	0.3	0.4	1.1	0.2	0.3	0.5	0.3	0.3	1.5	0.3	0.3	0.5	1.6	0.0	0.0
AGE: Ad																				
DELTA-P	0.9	-0.4	-0.2	-0.4	1.0	0.6	-0.5	1.9	-0.2	0.0	-0.2	0.8	-0.7	2.4	1.2	-0.3	-0.9#	-0.3	-0.5	-0.2
STD ERR OF DP		0.5	0.5	0.4	1.0	0.3	0.3	2.4	0.3	0.5	0.5	0.7	0.4	2.5	1.0	0.4	0.4	0.7	0.5	0.7
STD ERR OF P	0.3	0.5	0.5	0.2	1.3	0.7	0.2	2.7	0.3	0.6	0.4	1.0	0.2	2.8	1.1	0.4	0.0	0.7	0.4	0.7
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	71.6	-0.6	-4.1	0.9	4.0*	-3.8#	4.2#	-18.2#	3.7#	-11.4*	-9.5*	-0.7	7.7#	-20.0#	-1.6	0.1	-2.5	2.2	0.5	11.2#
STD ERR OF DP		2.5	2.1	2.4	1.9	0.9	1.0	3.2	0.7	5.5	4.4	1.6	1.3	4.7	6.7	1.6	2.4	3.4	2.6	2.7
P-VALUE	71.6	71.0	67.5	72.5	75.6	67.8	75.8	53.4	75.3	60.2	62.1	70.9	79.3	51.6	70.0	71.7	69.1	73.8	72.1	82.8
STD ERR OF P	1.3	2.9	2.4	3.0	1.9	1.8	1.5	3.4	1.3	5.7	4.7	2.1	1.6	4.8	7.5	1.9	2.5	3.4	2.6	2.6
AGE: 17																				
DELTA-P	79.5	-1.8	0.8	0.3	0.4	1.3	-1.2	-13.4#	2.8#	-13.9#	-11.2#	1.1	7.9#	-9.3#	-1.4	1.0	0.7	-4.3	1.7	4.8
STD ERR OF DP		1.8	1.8	1.6	1.9	0.9	0.8	2.4	0.5	2.7	2.5	1.3	1.1	2.9	4.5	1.4	2.3	4.8	2.9	2.6
P-VALUE	79.5	77.8	80.3	79.9	79.9	80.9	78.3	66.2	82.4	65.6	68.4	80.7	87.5	70.2	78.2	80.6	80.1	75.3	81.3	84.3
STD ERR OF P	1.0	1.9	2.1	1.8	2.3	1.2	1.5	2.7	1.0	3.0	2.7	1.7	1.2	2.9	4.7	1.6	2.2	4.9	3.4	2.6
AGE: Ad																				
DELTA-P	61.7	-5.6*	3.9	-2.5	3.4	2.4	-2.2	-23.8#	3.6#	-16.0#	-10.9#	6.4#	19.0#	-18.4#	-6.3	-0.6	1.0	3.5	-4.3	18.9#
STD ERR OF DP		2.7	2.7	2.4	2.2	1.3	1.2	4.6	0.8	2.5	3.4	2.1	2.3	4.1	5.0	2.1	4.9	5.5	4.5	2.9
P-VALUE	61.7	56.1	65.5	59.2	65.1	64.0	59.5	37.8	65.3	45.7	50.8	68.0	80.7	43.3	55.4	61.1	62.7	65.1	57.4	80.6
STD ERR OF P	1.5	2.9	3.4	2.8	2.4	1.7	2.1	4.4	1.7	3.1	3.3	2.6	2.4	3.9	5.2	2.7	5.1	5.5	4.8	3.1
RESPONSE: 10 AGE: 13 TEXT: 11																				
DELTA-P	37.6	0.7	-2.8	-2.1	4.6	-2.6*	2.9*	-21.6#	4.2#	-11.6#	-16.8#	1.4	8.9#	-18.6#	-1.2	-1.3	5.4	-6.5	-2.6	16.8#
STD ERR OF DP		1.7	1.9	2.4	2.7	1.2	1.3	2.3	0.5	4.0	3.2	1.7	1.6	4.3	5.3	2.1	3.8	3.7	3.2	4.4
STD ERR OF P	1.3	1.6	2.1	3.0	3.2	1.7	1.9	2.1	1.4	3.7	3.5	2.2	2.1	4.4	5.7	2.0	3.9	3.9	3.5	4.7
AGE: 17																				
DELTA-P	57.2	-4.5*	-0.6	0.2	4.3	1.6	-1.5	-15.6#	3.6#	-16.1#	-18.4#	-1.9	12.7#	-11.9#	-7.3	0.5	1.3	-6.2	6.0	6.6
STD ERR OF DP		2.0	2.3	1.7	2.2	1.1	1.0	2.7	0.6	3.7	3.3	2.1	1.5	3.9	5.0	1.6	3.5	4.1	3.1	4.1
STD ERR OF P	1.2	2.1	2.8	1.9	2.6	1.6	1.6	3.2	1.2	4.0	3.3	2.3	1.7	4.2	5.0	1.7	3.8	4.0	3.5	4.3
AGE: Ad																				
DELTA-P	40.2	-3.6	2.5	-2.9	3.7	5.8#	-5.4#	-23.4#	3.5#	-13.5#	-9.9#	2.2	20.5#	-14.7#	-7.6	-0.2	3.5	-0.6	2.6	10.5*
STD ERR OF DP		2.8	2.8	2.7	2.7	1.4	1.3	3.9	0.7	2.1	2.8	2.2	2.2	4.3	4.8	2.1	5.4	5.5	4.3	4.7
STD ERR OF P	1.6	2.9	3.4	3.4	3.1	2.3	2.0	3.5	1.8	2.4	2.8	2.9	2.8	4.0	4.9	2.6	5.6	5.7	4.6	5.5
RESPONSE: 11 AGE: 13 TEXT: Correct process with no answer or wrong answer; e.g., (4 x 5) - (4 + 5); (5 x 4) - (5 + 4); 4 x 5 - 4 - 5																				
DELTA-P	29.3	-1.3	-1.2	3.3	-1.0	-1.7	1.8	3.8	-0.5	1.1	5.4	-2.5	-0.4	0.2	-0.1	1.8	-9.0#	8.4*	1.3	-4.3
STD ERR OF DP		2.6	2.3	2.2	2.9	1.0	1.2	2.6	0.4	6.9	3.7	1.5	1.4	2.5	2.9	1.8	3.4	3.5	3.4	4.1
STD ERR OF P	1.4	3.0	2.5	2.4	3.5	1.5	2.1	2.9	1.6	7.3	4.2	2.0	1.7	2.4	3.4	2.3	3.4	3.7	3.8	4.4
AGE: 17																				
DELTA-P	20.2	1.9	1.3	0.2	-3.1	-0.4	0.4	2.1	-0.5	1.3	7.8#	2.2	-3.8#	2.2	5.4	0.7	-0.6	0.2	-3.7	-1.4
STD ERR OF DP		1.2	1.6	1.5	1.8	1.0	0.9	2.0	0.5	3.1	2.9	1.4	1.0	3.1	3.4	1.3	3.1	3.4	2.2	3.0
STD ERR OF P	0.9	1.1	1.8	1.8	2.1	1.3	1.3	2.2	1.0	3.3	3.3	1.5	1.4	3.4	3.5	1.4	3.4	3.5	2.2	3.0

EXERCISE: RB05

Let the symbol * mean "subtract the sum of two numbers from their product." For example: 2 * 3 = (2 x 3) - (2 + 3) Using this definition, 4 * 5 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 11 AGE: Ad TEXT: Correct process with no answer or wrong answer; e.g., (4 x 5) - (4 + 5); (5 x 4) - (5 + 4); 4 x 5 - 4 - 5																				
DELTA-P	19.4	-2.9	1.7	0.7	-0.3	-2.6*	2.4*	-1.2	0.1	-3.1	0.4	3.9*	-1.5	-4.4	1.3	-0.7	-1.9	2.4	-5.6*	9.2*
STD ERR OF DP		2.1	2.3	1.8	1.8	1.2	1.1	3.1	0.5	2.0	2.3	1.9	2.0	2.7	3.3	1.4	2.9	2.6	2.7	4.2
STD ERR OF P	1.2	2.2	2.9	2.1	1.9	1.9	1.4	3.1	1.3	2.1	2.3	2.6	2.2	2.3	3.4	1.8	3.1	2.7	2.8	4.9
RESPONSE: 12 AGE: 13 TEXT: Correct process but transcription error or number interchanged; e.g., (4 x 2) - (4 + 2); (5 x 3) - (5 + 3); (4 x 5) - (4 + 2)																				
DELTA-P	4.8	0.1	-0.2	-0.3	0.5	0.5	-0.5	-0.5	-0.1	-0.9	1.9	0.3	-0.9	-1.6	-0.4	-0.4	1.0	0.3	1.8	-1.3
STD ERR OF DP		0.7	0.8	0.9	0.7	0.5	0.5	0.9	0.2	1.8	2.2	0.8	0.7	1.5	1.2	0.7	1.0	1.2	1.6	1.3
STD ERR OF P	0.5	0.8	1.0	1.1	0.8	0.7	0.6	1.0	0.5	1.8	2.3	1.0	0.7	1.5	1.3	0.9	1.0	1.3	1.7	1.2
AGE: 17																				
DELTA-P	2.2	0.9	0.1	-0.1	-0.8	0.1	-0.1	0.1	-0.3	0.9	-0.5	0.8	-1.0*	0.5	0.6	-0.2	-0.0	1.7	-0.6	-0.4
STD ERR OF DP		0.7	0.5	0.5	0.5	0.4	0.4	0.8	0.2	1.3	0.7	0.7	0.3	1.2	0.8	0.4	0.7	1.2	0.8	1.4
STD ERR OF P	0.3	0.9	0.6	0.5	0.6	0.5	0.5	0.8	0.4	1.4	0.6	0.8	0.3	1.2	0.8	0.5	0.8	1.1	0.8	1.5
AGE: Ad																				
DELTA-P	2.1	0.9	-0.3	-0.2	-0.1	-0.9*	0.8*	0.8	-0.0	0.6	-1.4*	0.2	0.1	0.8	0.0	0.3	-0.5	1.7	-1.2	-0.8
STD ERR OF DP		0.8	0.5	0.5	0.6	0.3	0.3	1.6	0.2	0.7	0.5	0.5	0.5	1.6	1.1	0.4	1.1	1.6	0.7	0.8
STD ERR OF P	0.3	0.9	0.5	0.6	0.7	0.4	0.6	1.7	0.4	0.8	0.4	0.7	0.6	1.6	1.2	0.5	1.2	1.7	0.6	0.8
RESPONSE: 20 AGE: 13 TEXT: 1																				
DELTA-P	6.2	-0.5	0.5	-0.1	0.1	0.2	-0.2	3.0	-0.5	3.2	5.0	-0.0	-2.0*	4.4	-1.3	-0.2	-1.3	-0.8	1.8	-0.6
STD ERR OF DP		1.2	1.0	1.3	1.1	0.5	0.5	1.8	0.3	3.5	2.6	0.8	0.7	2.4	2.2	0.7	1.5	2.4	1.7	1.7
STD ERR OF P	0.7	1.4	1.1	1.6	1.2	0.9	0.8	2.1	0.7	3.8	2.8	1.0	0.8	2.5	2.4	0.9	1.6	2.5	1.8	1.8
AGE: 17																				
DELTA-P	3.1	0.5	1.5	-0.8	-0.9	-0.2	0.2	3.0*	-0.6*	3.4*	0.2	-0.4	-0.5	-0.2	1.6	-0.4	-0.0	2.0	0.5	-1.9*
STD ERR OF DP		0.7	0.8	0.6	0.7	0.4	0.4	1.2	0.2	1.5	1.0	0.5	0.4	1.2	2.1	0.6	1.1	1.2	1.3	0.8
STD ERR OF P	0.4	0.7	1.0	0.6	0.9	0.5	0.6	1.4	0.4	1.7	0.9	0.7	0.5	1.2	2.2	0.7	1.2	1.2	1.4	0.6
AGE: Ad																				
DELTA-P	4.0	1.5	-0.7	-0.1	-0.4	-0.5	0.5	7.4*	-1.1*	1.6	2.8*	-1.9*	-2.1*	3.9*	1.3	-0.4	1.7	-1.7	-0.1	-2.6*
STD ERR OF DP		1.1	0.7	0.9	0.8	0.5	0.5	2.2	0.3	0.8	1.4	0.7	0.6	1.7	1.5	0.6	1.9	1.1	1.7	0.9
STD ERR OF P	0.5	1.2	0.8	1.1	0.8	0.7	0.7	2.3	0.5	1.1	1.6	0.6	0.6	1.8	1.6	0.8	1.9	1.1	1.9	0.8
RESPONSE: 21 AGE: 13 TEXT: Other Unacceptable; e.g., copies example																				
DELTA-P	17.0	1.2	1.2	1.0	-3.6*	2.6*	-2.8*	14.6*	-3.0*	8.8*	1.8	0.0	-3.9*	9.8*	4.6	-0.6	1.7	-0.6	-1.2	-7.3*
STD ERR OF DP		1.7	1.7	2.7	1.6	0.8	0.9	2.9	0.6	4.4	3.2	1.4	1.0	3.5	7.9	1.5	1.9	2.6	2.1	2.1
STD ERR OF P	1.2	1.6	1.8	3.5	1.5	1.7	1.2	3.2	1.2	4.3	3.4	1.8	1.5	3.6	8.7	1.4	1.8	2.8	2.2	2.1
AGE: 17																				
DELTA-P	12.0	1.7	-1.6	0.4	-0.2	-0.6	0.6	8.2*	-1.8*	6.0*	7.9*	0.7	-4.7*	6.3*	2.0	-0.9	-0.8	-2.5	-0.7	0.1
STD ERR OF DP		2.3	1.3	1.2	1.7	0.8	0.7	2.3	0.5	2.4	1.6	1.1	1.0	1.9	3.3	1.2	1.6	3.8	2.1	2.3
STD ERR OF P	0.9	2.7	1.3	1.3	2.0	1.0	1.3	2.7	0.8	2.7	1.9	1.4	0.9	1.9	3.4	1.4	1.8	4.1	2.5	2.4
AGE: Ad																				
DELTA-P	15.6	2.2	0.2	-0.0	-2.1	0.5	-0.4	10.3*	-1.6*	6.0*	3.6	-2.5	-5.9*	6.5	-0.3	-0.9	2.9	-1.2	4.1	-6.8*
STD ERR OF DP		1.7	1.9	1.8	1.8	0.8	0.8	3.2	0.5	1.8	2.3	1.5	1.5	3.4	2.0	1.0	2.8	4.2	3.2	2.3
STD ERR OF P	1.1	1.7	2.4	2.2	2.1	1.5	1.2	3.2	1.2	2.2	2.6	1.8	1.5	3.6	1.9	1.3	3.2	4.4	3.7	2.1
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	3.7	-0.1	1.6	-1.3	-0.3	0.9	-1.0	-0.5	0.2	-0.8	2.1	0.1	-0.8	2.3	-0.3	1.1	1.3	-2.1*	-0.7	-2.5*
STD ERR OF DP		1.1	1.3	0.8	0.9	0.5	0.5	1.0	0.2	1.1	1.7	0.8	0.5	3.0	1.5	0.9	1.8	1.0	1.2	0.8
STD ERR OF P	0.6	1.3	1.7	0.7	1.0	1.0	0.5	1.1	0.7	1.1	1.8	1.2	0.7	3.1	1.6	1.2	2.0	0.9	1.2	0.6

EXERCISE: RB05

Let the symbol * mean "subtract the sum of two numbers from their product." For example: 2 * 3 = (2 x 3) - (2 + 3) Using this definition, 4 * 5 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	4.5	-0.3	-0.1	0.5	-0.1	-0.3	0.3	0.9	-0.1	5.1*	3.3*	-1.2	-2.4*	1.5	-1.6	0.5	0.4	1.0	-0.6	-2.1
STD ERR OF DP		0.8	0.9	0.6	0.5	0.4	0.4	1.3	0.2	1.7	1.1	0.6	0.5	1.2	1.2	0.6	0.9	1.8	1.4	1.3
STD ERR OF P	0.4	0.8	1.2	0.7	0.4	0.6	0.6	1.3	0.5	1.8	1.2	0.7	0.5	1.2	1.2	0.7	0.9	1.8	1.6	1.4
AGE: Ad																				
DELTA-P	17.8	2.3	-3.3	3.0	-1.9	-2.9*	2.7*	4.3	-0.7	8.4*	4.7	-2.7	-10.3*	5.6	4.2	2.2	-4.7	-0.3	0.8	-9.4*
STD ERR OF DP		2.1	2.1	2.6	2.1	1.0	1.0	3.6	0.5	1.8	2.6	1.4	1.7	3.6	3.8	1.7	2.7	4.5	3.7	2.5
STD ERR OF P	1.3	2.0	2.4	3.4	2.2	1.5	1.8	[illegible]	1.4	2.6	2.8	2.1	1.5	4.1	3.7	2.3	2.8	4.9	4.0	2.3

RB06
OBJ II

$$\begin{array}{r} 315 \\ \underline{-179} \\ 136 \end{array}$$

What two numbers could you add to check this subtraction?

ANSWER ____________________ and ______________________________

Report #: RB06

NAEP #: B13001-1234

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		05-33	02-02	09-11	02-02
National P-value:	RB06	41.90	82.17	88.22	86.29

Timing: (in seconds)

		9	13	17	Adult
	Stimulus:	11	11	10	11
	Response:	19	21	20	*
RB06	Exercise total:	30	32	30	*

*Time not limited by paced tape.

SCORING GUIDE
RB06
B13001-1234

00 = No Response

10 = 179 and 136; 136 and 179; 136 + 179; 179 + 136

11 = Has 139 or 163 for 136 plus 179; has 176 or 197 for 179 plus 136

20 = 315 + 136; 315 + 179

21 = Other Unacceptable

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

EXERCISE: RB06

What two numbers could you add to check this subtraction: 315 - 179 = 136.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	3.9	-0.7	2.8	-1.3	-0.8	1.1*	-1.1*	1.1	-1.3	-0.1	-0.2	0.2	-1.9*	2.3	8.2	-0.7	-2.4*	0.5	-1.5	-2.2*
STD ERR OF DP		0.9	1.9	0.9	0.8	0.4	0.4	1.4	0.7	1.5	1.8	0.9	0.6	1.5	6.2	0.9	1.0	1.3	1.2	0.9
STD ERR OF P	0.7	0.8	2.6	0.8	0.6	1.0	0.7	1.3	0.4	1.8	1.7	1.1	0.6	1.4	6.8	0.8	0.8	1.2	1.0	0.7
AGE: 13																				
DELTA-P	3.1	-0.6	1.7	-0.3	-0.9	0.4	-0.4	4.7*	-1.4*	1.5	1.0	-0.9	-0.8	8.7*	0.5	-1.5*	0.7	-2.3*	0.9	-0.8
STD ERR OF DP		0.7	1.6	0.9	0.8	0.3	0.3	1.2	0.3	1.4	1.5	0.5	0.6	2.8	1.9	0.6	1.4	0.7	2.5	1.0
STD ERR OF P	0.6	0.5	2.0	0.9	0.8	0.7	0.7	1.3	0.5	1.6	1.5	0.6	0.9	2.9	2.0	0.4	1.5	0.5	3.0	1.0
AGE: 17																				
DELTA-P	1.2	1.6*	0.2	-0.8*	-0.6*	0.4	-0.3	2.1*	-0.5*	2.4*	0.3	-0.4	-0.5*	1.0	2.2	0.0	-0.1	-0.8*	-0.7	-0.8
STD ERR OF DP		0.5	0.4	0.3	0.3	0.2	0.2	0.8	0.2	0.9	0.5	0.4	0.2	0.9	1.1	0.3	0.6	0.4	0.4	0.4
STD ERR OF P	0.2	0.6	0.5	0.3	0.2	0.3	0.3	0.9	0.2	1.0	0.6	0.4	0.3	1.0	1.2	0.3	0.7	0.4	0.4	0.4
AGE: Ad																				
DELTA-P	0.2	0.2	0.1	-0.1	-0.2	0.1	-0.1	0.0	-0.0	0.4	-0.1	-0.2*	-0.2*	-0.2*	0.6	0.1	-0.2*	-0.2*	0.0	-0.2*
STD ERR OF DP		0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.7	0.1	0.1	0.1	0.3	0.1
STD ERR OF P	0.1	0.3	0.2	0.2	0.1	0.2	0.1	0.3	0.1	0.3	0.2	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.3	0.0
RESPONSE: 10* AGE: 9	TEXT: 179 and 136; 136 and 179; 136 + 179; 179 + 136 (Only category 10 was considered to be the acceptable response.)																			
DELTA-P	41.9	0.3	-6.0	4.2	1.7	0.3	-0.3	-22.3*	6.3*	-4.5	7.4	6.2*	6.3*	-24.1*	-4.3	1.9	5.5	-5.4	9.1*	6.7
STD ERR OF DP		1.9	3.2	2.8	2.3	1.2	1.2	2.6	1.0	3.5	6.8	2.4	1.8	3.8	7.4	2.2	3.5	3.4	4.0	4.3
P-VALUE	41.9	42.2	35.9	46.1	43.6	42.2	41.6	19.6	48.2	37.4	49.3	48.1	48.2	17.8	37.6	43.8	47.4	36.5	51.0	48.6
STD ERR OF P	1.5	1.5	3.9	3.5	2.5	1.9	2.0	2.7	1.4	3.7	7.2	3.3	2.2	4.2	7.8	2.3	3.6	3.6	4.4	4.5
AGE: 13																				
DELTA-P	82.2	-5.0*	-2.5	3.4*	3.3*	-2.2*	2.1*	-24.5*	5.1*	-9.8*	-8.8*	2.3*	6.5*	-19.7*	-0.4	0.6	-1.7	0.8	3.2	6.7*
STD ERR OF DP		1.9	2.3	1.4	1.6	0.9	0.8	2.9	0.7	3.5	3.6	1.1	1.1	4.4	3.7	1.3	2.7	2.8	3.5	1.9
P-VALUE	82.2	77.2	79.6	85.5	85.5	80.0	84.3	57.7	87.2	72.4	73.4	84.5	88.7	62.5	81.8	82.8	80.5	83.0	85.3	88.9
STD ERR OF P	1.1	2.1	2.9	1.5	1.7	1.4	1.3	3.2	1.0	3.9	3.9	1.3	1.2	4.7	4.0	1.3	2.8	3.0	3.9	1.9
AGE: 17																				
DELTA-P	88.2	-2.3	-3.3*	1.1	3.7*	0.1	-0.1	-11.9*	3.2*	-12.7*	-11.6*	0.4	5.9*	-7.7*	-1.3	1.5	-0.4	2.0	0.3	1.6
STD ERR OF DP		1.3	1.2	1.1	1.1	0.9	0.8	2.6	0.6	2.4	2.1	1.1	0.6	3.6	2.8	1.0	2.1	2.1	1.8	2.0
P-VALUE	88.2	85.9	84.9	89.3	91.9	88.3	88.2	76.3	91.5	75.6	76.6	88.6	94.1	80.5	86.9	89.7	87.8	90.2	88.5	89.8
STD ERR OF P	0.7	1.4	1.3	1.4	1.3	1.0	1.1	2.7	0.8	2.5	2.4	1.4	0.6	3.8	2.8	1.1	2.1	2.1	2.0	2.1
AGE: Ad																				
DELTA-P	86.3	-0.9	0.5	0.9	-0.8	1.4	-1.3	-19.0*	3.1*	-5.1*	-5.0*	3.4*	7.2*	-9.7*	2.3	-0.0	-3.7	-2.1	5.1*	5.4*
STD ERR OF DP		2.3	1.8	2.2	2.1	0.9	0.8	4.0	0.6	1.7	2.3	1.2	1.5	3.2	2.2	1.4	3.4	3.1	2.2	2.0
P-VALUE	86.3	85.4	86.8	87.2	85.5	87.6	85.0	67.3	89.4	81.2	81.3	89.7	93.5	76.6	88.6	86.3	82.6	84.2	91.4	91.7
STD ERR OF P	1.2	2.6	1.8	2.9	2.4	1.2	1.8	4.6	1.1	2.2	2.9	1.6	1.1	3.9	2.0	1.8	3.7	3.3	2.5	2.0
RESPONSE: 11 AGE: 9	TEXT: Has 139 or 163 for 136 plus 179; has 176 or 197 for 179 plus 136																			
DELTA-P	0.8	-0.1	-0.6*	-0.0	0.7	-0.3	0.3	-0.6*	0.2*	-0.4	-0.4	-0.6*	0.2	0.1	-0.8*	0.1	-0.5	-0.8*	0.3	1.1
STD ERR OF DP		0.4	0.3	0.4	0.5	0.3	0.3	0.3	0.1	0.5	0.5	0.3	0.4	0.6	0.2	0.3	0.4	0.2	0.9	0.9
STD ERR OF P	0.2	0.4	0.2	0.5	0.7	0.2	0.4	0.2	0.3	0.4	0.4	0.1	0.5	0.6	0.0	0.4	0.3	0.0	1.0	1.0
AGE: 13																				
DELTA-P	0.5	-0.1	0.3	-0.2	0.0	0.1	-0.1	0.1	-0.1	0.5	0.5	-0.0	-0.2	-0.1	0.1	0.1	-0.5*	0.0	0.0	0.2
STD ERR OF DP		0.3	0.3	0.2	0.2	0.2	0.2	0.4	0.1	0.8	0.8	0.3	0.2	0.4	0.5	0.3	0.2	0.4	0.3	0.6
STD ERR OF P	0.2	0.3	0.4	0.3	0.2	0.3	0.2	0.4	0.2	0.8	0.9	0.3	0.2	0.4	0.5	0.3	0.0	0.4	0.3	0.7
AGE: 17																				
DELTA-P	0.7	0.1	-0.1	0.1	-0.0	-0.1	0.1	-0.7*	0.2*	-0.6*	-0.1	-0.1	0.2	-0.7*	-0.0	-0.1	-0.3	-0.5	0.9	0.4
STD ERR OF DP		0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.4	0.3	0.2	0.2	0.6	0.2	0.3	0.3	0.6	0.5
STD ERR OF P	0.2	0.4	0.4	0.4	0.3	0.2	0.3	0.0	0.2	0.1	0.4	0.3	0.3	0.0	0.7	0.2	0.2	0.2	0.7	0.6

EXERCISE: 8806

What two numbers could you add to check this subtraction: 315 - 179 = 136.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 11 AGE: Ad TEXT: Has 139 or 163 for 136 plus 179; has 176 or 197 for 179 plus 136																				
DELTA-P	0.4	-0.2	-0.1	0.3	-0.1	-0.1	0.1	-0.2	0.0	-0.4*	-0.4*	0.5	0.1	-0.2	-0.4*	0.1	-0.4*	-0.4*	-0.1	0.7
STD ERR OF DP		0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.7
STD ERR OF P	0.2	0.2	0.2	0.4	0.3	0.2	0.3	0.2	0.2	0.0	0.0	0.4	0.3	0.2	0.0	0.3	0.0	0.0	0.3	0.8
RESPONSE: 20 AGE: 9 TEXT: 315 + 136; 315 + 179																				
DELTA-P	8.9	0.0	1.0	-0.3	-0.7	-0.5	0.5	1.5	-0.5	1.9	-1.5	-2.1	0.6	-0.3	1.6	0.5	1.5	-0.9	1.3	-3.7*
STD ERR OF DP		1.0	1.2	1.2	1.2	0.5	0.5	1.3	0.3	2.8	2.0	1.2	0.9	2.2	2.6	0.8	1.3	1.4	2.5	1.4
STD ERR OF P	0.7	1.0	1.3	1.4	1.5	0.8	0.9	1.4	0.8	3.0	2.8	1.4	1.1	2.3	2.8	0.9	1.3	1.5	2.8	1.4
AGE: 13																				
DELTA-P	5.8	1.3	0.1	-0.3	-0.9	-0.1	0.1	5.7*	-1.1*	3.2	2.9	-0.8	-2.2*	1.4	-1.8	0.2	0.8	2.0	-0.0	-2.7*
STD ERR OF DP		0.8	1.0	0.7	0.9	0.5	0.5	1.6	0.3	2.3	1.8	0.7	0.6	2.4	1.2	0.6	1.3	1.6	1.0	1.3
STD ERR OF P	0.5	0.8	1.2	0.8	1.1	0.8	0.7	1.7	0.5	2.4	1.9	0.7	0.7	2.4	1.2	0.8	1.5	1.7	1.1	1.3
AGE: 17																				
DELTA-P	2.6	0.2	0.5	0.7	-1.4*	-0.1	0.1	2.6*	-0.7*	1.9	3.2*	-0.5	-0.9*	1.3	1.6	0.2	0.5	0.5	-1.1	-1.9*
STD ERR OF DP		0.6	0.7	0.6	0.5	0.4	0.4	1.0	0.2	1.3	1.3	0.5	0.3	1.2	1.4	0.5	0.9	0.9	1.1	0.5
STD ERR OF P	0.3	0.6	0.8	0.8	0.5	0.4	0.6	1.0	0.4	1.3	1.5	0.6	0.5	1.2	1.4	0.6	1.0	0.9	1.2	0.5
AGE: Ad																				
DELTA-P	1.5	0.6	-0.4	0.2	-0.4	0.5	-0.5	3.0	-0.3	0.4	2.6*	-0.8*	-1.4*	-0.4	0.2	0.1	0.2	2.2	-0.5	-1.5*
STD ERR OF DP		0.5	0.5	0.6	0.5	0.4	0.4	1.9	0.2	0.5	1.3	0.4	0.3	0.8	0.8	0.4	0.9	2.1	0.8	0.3
STD ERR OF P	0.3	0.5	0.5	0.8	0.5	0.7	0.3	2.1	0.3	0.5	1.5	0.4	0.2	0.8	0.7	0.4	0.9	2.3	0.8	0.0
RESPONSE: 21 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	20.6	6.1*	-0.3	-1.6	-4.2*	-0.1	0.1	16.3*	-3.4*	10.4*	-5.4	0.8	-1.5	14.5*	1.1	1.1	-1.6	0.5	-6.4*	-6.9*
STD ERR OF DP		2.0	1.5	2.4	1.8	0.9	0.8	2.2	0.6	3.5	3.4	1.9	1.0	3.4	3.5	1.8	2.5	2.0	2.8	2.3
STD ERR OF P	1.1	2.2	1.5	3.0	2.0	1.2	1.6	2.6	1.2	3.8	3.7	2.3	1.3	3.8	3.4	2.3	2.6	2.2	3.6	2.3
AGE: 13																				
DELTA-P	4.5	3.6*	-1.4*	-1.3	-0.4	0.2	-0.2	7.1*	-1.3*	2.9	1.9	-0.1	-2.2*	3.1	3.4	0.9	-0.9	0.3	-3.3*	-2.2
STD ERR OF DP		1.5	0.7	0.7	0.7	0.4	0.4	1.6	0.3	2.1	2.0	0.6	0.5	1.8	1.9	0.8	1.1	1.2	0.7	1.2
STD ERR OF P	0.5	1.9	0.6	0.6	0.7	0.7	0.6	1.8	0.6	2.3	2.3	0.8	0.4	1.9	2.1	1.1	1.1	1.1	0.6	1.1
AGE: 17																				
DELTA-P	4.6	-0.5	2.0	-1.3	-0.1	-0.5	0.5	4.6*	-1.4*	1.2	3.8	1.1	-2.3*	3.3	-0.4	-1.3	-2.4*	0.7	1.3	1.2
STD ERR OF DP		1.0	1.1	0.7	1.2	0.6	0.5	1.3	0.4	1.5	2.4	0.9	0.5	2.5	1.7	0.8	0.8	1.6	1.5	2.0
STD ERR OF P	0.6	1.1	1.3	0.6	1.5	0.8	0.8	1.4	0.6	1.5	2.7	1.2	0.5	2.7	1.7	0.7	0.7	1.6	1.7	2.2
AGE: Ad																				
DELTA-P	6.0	-0.1	-0.3	-1.9	2.7	-0.3	0.2	7.7*	-0.9*	-0.4	0.6	-0.0	-0.7	3.8	-1.6	0.4	3.4	-2.4	-3.4*	-1.4
STD ERR OF DP		1.3	1.0	1.1	1.7	0.6	0.6	3.0	0.4	0.9	1.2	0.9	1.1	2.6	1.5	0.8	2.1	1.5	1.1	1.4
STD ERR OF P	0.7	1.4	1.0	1.2	2.2	0.7	1.2	3.3	0.7	1.1	1.4	1.3	1.1	2.9	1.6	1.2	2.4	1.4	1.0	1.3
RESPONSE: 99 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	23.8	-5.6*	3.1	-0.9	3.4	-0.5	0.5	3.9	-1.4*	-7.3	0.1	-4.5*	-3.7*	7.4*	-5.9*	-3.0*	-2.5	6.2	-2.8	4.9
STD ERR OF DP		2.0	2.8	1.9	1.8	1.0	1.0	2.3	0.7	3.8	4.7	1.8	1.3	3.5	2.4	1.4	2.8	3.2	2.4	4.3
STD ERR OF P	1.2	2.2	3.5	2.0	1.7	1.5	1.7	2.5	1.3	4.2	4.8	2.0	1.9	3.7	2.6	1.7	2.9	3.3	2.7	4.7
AGE: 13																				
DELTA-P	4.0	0.7	1.9	-1.3	-1.1	1.6*	-1.6*	7.0*	-1.3*	1.7	2.7	-0.5	-1.1*	6.6*	-1.7	-0.3	1.5	-0.8	-0.7	-1.3
STD ERR OF DP		0.9	1.1	0.8	1.0	0.5	0.5	2.1	0.4	1.5	1.6	0.6	0.5	3.2	1.0	0.7	1.4	1.2	1.6	1.1
STD ERR OF P	0.6	1.0	1.3	0.9	1.1	1.0	0.5	2.4	0.5	1.7	1.9	0.8	0.6	3.4	0.9	0.7	1.5	1.3	1.8	1.1

EXERCISE: RB06

What two numbers could you add to check this subtraction: 315 - 179 = 136.

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.7	0.9	0.7	0.2	-1.6#	0.3	-0.3	3.3*	-0.8#	7.8#	4.4*	-0.5	-2.4#	2.8*	-2.1#	-0.4	2.8	-2.0#	-0.7	-0.4
STD ERR OF DP		0.5	0.6	0.6	0.6	0.3	0.3	1.4	0.3	1.4	1.9	0.5	0.3	1.3	0.4	0.5	1.6	0.7	0.7	0.9
STD ERR OF P	0.4	0.5	0.7	0.8	0.7	0.5	0.5	1.6	0.3	1.5	2.1	0.4	0.2	1.5	0.2	0.5	1.8	0.6	0.8	1.0

AGE: Ad

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	5.5	0.5	0.2	0.5	-1.2	-1.7*	1.6*	8.4#	-1.8#	5.1#	2.3	-2.9#	-5.0#	6.7*	-1.1	-0.8	0.7	2.9	-1.2	-3.0*
STD ERR OF DP		1.6	1.2	1.4	1.3	0.7	0.7	2.6	0.4	1.4	1.7	0.8	0.9	2.7	1.3	0.9	2.3	2.6	1.7	1.4
STD ERR OF P	0.8	1.9	1.4	1.7	1.5	0.7	1.3	2.9	0.7	1.9	2.1	0.6	0.4	3.0	1.2	1.3	2.5	2.6	1.9	1.2

RB07
OBJ I

A. Which number is the GREATEST?

- ○ 0.5
- ● 5.0
- ○ 0.005
- ○ 0.05

- ○ I don't know.

RB07
OBJ I

(Continued)

B. Which number is the SMALLEST?

- ○ 2.002
- ○ 0.202
- ○ 0.22
- ● 0.022

- ○ I don't know.

Report #: RB07

NAEP #: R22007-234

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple part multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		01-16	11-15	01-27
National P-value:				
	RB07A	84.30	92.80	91.33
	RB07B	51.45	75.33	73.96
Timing: (in seconds)				
	Stimulus:	5	6	13
	Response:	25	24	*
	I don't know:	5	5	*
	Pause:	6	5	*
	Turn page:	(6)	(5)	*
RB07A	Part total:	41**	40**	*
	Stimulus:	5	4	12
	Response:	26	25	*
	I don't know:	5	5	*
	Pause:	6	6	*
RB07B	Part total:	42	40	*
RB07	Exercise total:	83	80	*

*Time not limited by paced tape.

**Time to turn page is not included in total times.

EXERCISE: RB07

Part A. Which number is the GREATEST?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.1	-0.1	-0.1	-0.1	0.2	0.1	-0.1	0.1	-0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.3
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
STD ERR OF P	0.1	0.0	0.0	0.0	0.2	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.4
AGE: 17																				
DELTA-P	0.1	-0.1	-0.1	-0.1	0.3	0.1	-0.1	0.6	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	1.0	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.3	0.1	0.1	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.0	0.4	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
AGE: Ad																				
DELTA-P	0.2	-0.2	-0.2	0.3	0.0	0.1	-0.1	-0.2	0.0	0.0	0.5	-0.1	-0.2	0.4	-0.2	0.1	0.1	-0.2	-0.2	-0.2
STD ERR OF DP		0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.0	0.2	0.5	0.1	0.1	0.5	0.1	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.4	0.2	0.2	0.1	0.0	0.1	0.2	0.6	0.1	0.0	0.5	0.0	0.3	0.2	0.0	0.0	0.0
RESPONSE: 01 AGE: 13 TEXT: 0.5																				
DELTA-P	2.9	1.4	-1.7#	-0.6	1.2	-0.0	0.0	4.7#	-0.8#	0.8	1.7	0.2	-1.3#	2.4	-0.9	-0.5	2.0	1.0	-0.9	-1.4
STD ERR OF DP		0.9	0.5	0.6	0.9	0.3	0.3	1.4	0.3	1.7	1.5	0.6	0.4	1.6	1.0	0.5	1.4	1.1	0.7	0.8
STD ERR OF P	0.4	1.0	0.5	0.7	1.1	0.5	0.6	1.5	0.4	1.8	1.6	0.7	0.5	1.6	1.0	0.6	1.6	1.2	0.7	0.7
AGE: 17																				
DELTA-P	2.6	0.8	-0.1	-0.8	0.4	0.3	-0.3	4.5#	-1.0#	2.8	1.9*	0.3	-1.8#	4.8#	1.1	-0.6	-0.8	1.1	-1.2	-1.6*
STD ERR OF DP		0.7	0.6	0.5	0.7	0.4	0.4	1.3	0.2	2.1	0.9	0.5	0.4	1.7	1.4	0.4	0.7	1.8	0.7	0.8
STD ERR OF P	0.4	0.8	0.7	0.6	0.8	0.4	0.6	1.5	0.3	2.2	0.8	0.7	0.3	1.7	1.5	0.5	0.7	2.0	0.6	0.8
AGE: Ad																				
DELTA-P	1.1	-0.2	-0.1	-0.1	0.4	-0.3	0.3	3.0#	-0.4#	0.9	0.5	-0.3	-0.7*	2.0	0.1	-0.4	-0.8	1.1	-0.1	-0.3
STD ERR OF DP		0.4	0.4	0.4	0.5	0.3	0.2	1.1	0.2	0.5	0.6	0.4	0.4	1.3	0.7	0.3	0.4	1.4	0.6	0.8
STD ERR OF P	0.2	0.3	0.5	0.5	0.6	0.3	0.4	1.2	0.2	0.7	0.6	0.5	0.3	1.4	0.7	0.2	0.4	1.5	0.6	0.9
RESPONSE: 02* AGE: 13 TEXT: 5.0																				
DELTA-P	84.3	-6.3#	-0.7	3.5*	1.7	3.5#	-3.6#	-20.1#	4.7#	-11.9*	-5.2	-1.1	7.2#	-14.2#	-6.1	1.0	-0.1	-0.9	0.6	8.8#
STD ERR OF DP		1.9	2.2	1.5	1.5	0.7	0.7	2.5	0.8	4.9	3.1	1.5	1.1	4.1	5.1	1.7	2.1	2.5	1.9	1.7
P-VALUE	84.3	78.0	83.6	87.8	86.0	87.8	80.7	64.3	89.0	72.4	79.1	83.2	91.5	70.1	78.2	85.3	84.2	83.4	84.9	93.1
STD ERR OF P	1.0	2.1	2.7	1.8	1.5	1.0	1.4	2.5	0.8	5.4	3.3	1.8	1.0	4.3	5.6	1.8	2.0	2.6	2.0	1.6
AGE: 17																				
DELTA-P	92.8	-3.3*	-0.4	2.8#	-0.4	1.4*	-1.5*	-14.9#	2.8#	-4.4	-8.8#	-0.1	5.2#	-14.5#	-0.9	2.6#	2.6*	-3.3	2.5	2.5
STD ERR OF DP		1.3	1.5	1.0	1.5	0.6	0.6	2.3	0.5	2.4	1.7	0.9	0.8	3.2	1.9	0.9	1.2	3.4	1.3	1.6
P-VALUE	92.8	89.5	92.4	95.6	92.4	94.2	91.3	77.9	95.6	88.4	84.0	92.7	98.0	78.3	91.9	95.4	95.4	89.5	95.3	95.3
STD ERR OF P	0.8	1.4	1.8	1.0	1.8	0.9	1.1	2.8	0.5	2.4	2.0	1.3	0.6	3.3	2.1	0.8	1.0	3.6	1.5	1.5
AGE: Ad																				
DELTA-P	91.3	-4.1*	2.2	1.3	-0.3	4.1#	-3.8#	-26.0#	3.6#	-6.3#	-3.7	4.0#	5.2#	-14.4#	-0.3	1.0	-2.7	0.0	3.3	6.9#
STD ERR OF DP		1.8	1.5	1.2	1.5	0.7	0.7	3.8	0.6	1.6	1.9	0.8	1.1	3.9	1.8	1.0	3.3	2.9	1.9	1.2
P-VALUE	91.3	87.3	93.5	92.6	91.1	95.5	87.5	65.3	94.9	85.0	87.7	95.3	96.5	77.0	91.0	92.4	88.6	91.4	94.6	98.2
STD ERR OF P	0.8	2.0	1.8	1.3	1.7	0.8	1.3	4.2	0.6	1.9	2.2	0.9	1.0	4.2	1.8	1.1	3.5	3.1	2.2	1.1
RESPONSE: 03 AGE: 13 TEXT: 0.005																				
DELTA-P	11.8	3.9*	2.8	-2.6	-2.6*	-3.4#	3.5#	13.3#	-3.6#	10.0*	4.5	1.4	-5.6#	11.9#	7.1	-0.1	-2.8	-0.1	0.4	-7.6#
STD ERR OF DP		1.6	2.0	1.3	1.2	0.7	0.7	2.3	0.6	4.4	2.6	1.3	0.9	3.7	4.7	1.4	1.8	2.2	1.7	1.4
STD ERR OF P	0.9	1.7	2.4	1.6	1.2	0.9	1.3	2.3	0.7	4.9	2.7	1.7	0.8	3.9	5.2	1.4	1.7	2.4	1.7	1.3
AGE: 17																				
DELTA-P	3.4	2.3#	0.4	-1.6#	-0.4	-1.2#	1.3#	7.9#	-1.4#	0.2	5.6#	-0.2	-2.5#	7.4#	-0.3	-1.6#	-0.8	0.8	-0.7	-0.5
STD ERR OF DP		0.8	1.0	0.6	1.1	0.4	0.5	1.4	0.3	0.9	1.2	0.5	0.5	2.3	1.3	0.5	0.8	2.0	1.1	1.0
STD ERR OF P	0.5	0.8	1.2	0.5	1.3	0.7	0.6	1.7	0.4	0.9	1.4	0.8	0.3	2.5	1.4	0.4	0.6	2.1	1.3	0.9

EXERCISE: R807

Part A. Which number is the GREATEST?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 03 AGE: Ad TEXT: 0.005																				
DELTA-P	3.2	2.1	-1.3	-0.5	0.1	-1.5*	1.4*	13.4*	-1.8*	1.4	2.5	-1.8*	-1.5*	6.9*	-0.0	-0.5	3.7	-2.4*	-2.8*	-2.7*
STD ERR OF DP		1.1	0.7	0.7	1.0	0.5	0.4	2.8	0.4	1.0	1.3	0.5	0.6	2.6	1.4	0.6	2.2	0.9	0.6	0.5
STD ERR OF P	0.5	1.3	0.7	0.7	1.3	0.5	0.8	3.2	0.3	1.1	1.6	0.4	0.6	2.8	1.4	0.7	2.5	0.9	0.4	0.5
RESPONSE: 04 AGE: 13 TEXT: 0.05																				
DELTA-P	0.3	0.4	-0.2	-0.2	0.1	0.1	-0.1	0.8	-0.1	0.1	-0.3*	-0.1	-0.0	-0.3*	0.2	-0.0	0.1	-0.2	-0.3*	0.5
STD ERR OF DP		0.3	0.1	0.1	0.3	0.1	0.1	0.5	0.1	0.4	0.1	0.2	0.2	0.1	0.4	0.2	0.3	0.2	0.1	0.6
STD ERR OF P	0.1	0.4	0.0	0.1	0.4	0.2	0.1	0.6	0.1	0.4	0.0	0.1	0.2	0.0	0.4	0.2	0.3	0.1	0.0	0.7
AGE: 17																				
DELTA-P	0.5	0.1	0.5	-0.2	-0.3	-0.2	0.2	1.9	-0.3	0.3	0.4	0.2	-0.3	1.7	0.1	-0.4*	-0.2	0.1	-0.3	0.1
STD ERR OF DP		0.3	0.4	0.2	0.2	0.2	0.2	1.0	0.2	0.7	0.5	0.2	0.2	1.3	0.5	0.2	0.2	0.6	0.2	0.6
STD ERR OF P	0.2	0.3	0.5	0.2	0.2	0.2	0.4	1.1	0.1	0.8	0.5	0.3	0.1	1.4	0.6	0.1	0.2	0.6	0.2	0.6
AGE: Ad																				
DELTA-P	0.8	-0.4	0.1	-0.5	0.8	-0.4	0.4	2.6	-0.4*	0.6	0.7	-0.5	-0.5	1.6	0.0	-0.5	-0.4	2.0	0.3	-0.8*
STD ERR OF DP		0.3	0.4	0.3	0.6	0.3	0.2	1.3	0.2	0.5	0.7	0.3	0.3	1.2	0.5	0.3	0.4	1.6	0.8	0.2
STD ERR OF P	0.2	0.2	0.5	0.3	0.7	0.3	0.4	1.5	0.2	0.6	0.8	0.3	0.2	1.3	0.5	0.2	0.4	1.7	0.9	0.0
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	0.7	0.8	-0.1	0.0	-0.6*	-0.2	0.2	1.1	-0.2*	1.1	-0.7*	-0.3	-0.3	0.3	-0.2	-0.4	0.9	0.2	0.2	-0.6*
STD ERR OF DP		0.4	0.2	0.3	0.2	0.1	0.1	0.6	0.1	0.7	0.2	0.2	0.1	0.7	0.4	0.3	0.9	0.5	0.6	0.2
STD ERR OF P	0.2	0.5	0.2	0.4	0.1	0.1	0.3	0.7	0.2	0.8	0.0	0.2	0.1	0.7	0.4	0.2	1.0	0.5	0.6	0.1
AGE: 17																				
DELTA-P	0.6	0.3	-0.3	-0.1	0.3	-0.4*	0.4*	-0.1	-0.1	1.2	1.1	-0.1	-0.5*	0.8	0.2	0.1	-0.6*	0.2	-0.3	-0.5*
STD ERR OF DP		0.4	0.2	0.2	0.4	0.1	0.1	0.3	0.1	0.8	0.7	0.2	0.2	1.0	0.4	0.2	0.2	0.5	0.3	0.2
STD ERR OF P	0.2	0.5	0.2	0.2	0.5	0.1	0.3	0.3	0.2	0.9	0.8	0.3	0.1	1.1	0.5	0.3	0.1	0.6	0.2	0.2
AGE: Ad																				
DELTA-P	3.3	2.8*	-0.7	-0.5	-1.1	-2.0*	1.9*	7.2*	-1.0*	3.4*	-0.5	-1.3*	-2.3*	3.6	0.4	0.2	0.1	-0.6	-0.6	-2.8*
STD ERR OF DP		1.1	0.7	0.7	0.7	0.4	0.4	1.9	0.3	1.0	0.7	0.6	0.6	1.9	0.8	0.6	1.5	1.4	1.3	0.6
STD ERR OF P	0.5	1.2	0.9	0.9	0.7	0.4	0.7	2.1	0.4	1.3	0.7	0.6	0.6	2.1	0.8	0.7	1.5	1.5	1.4	0.5

EXERCISE: R807

Part B. Which number is the SMALLEST?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.1	-0.1*	-0.1*	0.1	0.1	0.1	-0.1*	0.3	-0.0	-0.1*	-0.1*	-0.0	-0.1*	0.4	-0.1*	0.1	-0.1*	-0.1*	0.2	-0.1*
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.3	0.1
STD ERR OF P	0.1	0.0	0.0	0.2	0.2	0.1	0.0	0.3	0.1	0.0	0.0	0.1	0.0	0.5	0.0	0.1	0.0	0.0	0.4	0.0
AGE: 17																				
DELTA-P	0.1	-0.1	-0.1	-0.1	0.4	0.1	-0.1	0.6	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.9	0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.3	0.1	0.1	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	0.2	0.1
STD ERR OF P	0.1	0.0	0.0	0.0	0.4	0.2	0.1	0.7	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.1	0.2	0.0
AGE: Ad																				
DELTA-P	0.2	-0.2	-0.2	0.3	0.0	0.1	-0.1	-0.2	0.0	0.0	0.5	-0.1	-0.2	0.4	-0.2	0.1	0.1	-0.2	-0.2	-0.2
STD ERR OF DP		0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.0	0.2	0.5	0.1	0.1	0.5	0.1	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.4	0.2	0.2	0.1	0.0	0.1	0.2	0.6	0.1	0.0	0.5	0.0	0.3	0.2	0.0	0.0	0.0

EXERCISE: RB07

Part B. Which number is the SMALLEST?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 01 AGE: 13	TEXT: 2.002																			
DELTA-P	7.1	3.0	-1.7	-0.9	0.3	0.1	-0.1	1.6	-0.3	4.4	1.6	-0.7	-1.2	-2.7	-2.4	1.2	1.9	0.2	-2.3	0.5
STD ERR OF DP		1.6	1.4	1.0	1.2	0.6	0.6	1.4	0.3	2.8	2.1	0.8	0.6	1.5	1.5	0.9	1.9	1.6	1.4	1.7
STD ERR OF P	0.7	1.9	1.6	1.1	1.4	1.0	0.9	1.7	0.7	3.1	2.4	0.9	0.9	1.4	1.7	1.2	2.1	1.7	1.5	1.8
AGE: 17																				
DELTA-P	5.0	-0.4	0.2	-0.9	1.3	-1.2*	1.3*	6.3#	-1.3#	1.6	3.0	-0.2	-2.1#	1.2	2.4	-0.4	-1.0	2.1	-1.2	-0.9
STD ERR OF DP		1.1	0.8	0.6	0.7	0.5	0.5	2.1	0.4	2.3	1.7	0.8	0.6	1.8	2.5	0.6	0.9	2.6	0.8	1.9
STD ERR OF P	0.4	1.4	1.0	0.7	0.7	0.6	0.8	2.3	0.5	2.4	1.9	0.9	0.6	1.8	2.6	0.7	0.8	2.7	0.8	2.0
AGE: Ad																				
DELTA-P	4.3	0.6	0.6	-1.1	0.1	-0.3	0.3	5.2#	-1.1#	1.5	1.3	-1.4	-1.2	1.0	-0.4	-1.0	2.0	2.3	1.0	-1.8
STD ERR OF DP		1.2	1.3	0.7	1.0	0.6	0.6	2.0	0.3	1.1	1.1	0.8	0.9	1.6	2.3	0.6	2.9	1.7	1.5	1.3
STD ERR OF P	0.6	1.4	1.6	0.6	1.0	0.9	0.8	2.2	0.6	1.4	1.1	0.8	1.0	1.6	2.5	0.7	3.2	1.8	1.4	1.3
RESPONSE: 02 AGE: 13	TEXT: 0.202																			
DELTA-P	6.1	0.0	-1.0	0.3	0.5	-0.4	0.4	-0.6	0.2	-2.0	1.3	2.3*	-0.6	4.3	3.3	0.7	-1.5	-0.9	-1.1	-2.0
STD ERR OF DP		0.7	1.0	0.8	1.0	0.5	0.5	1.3	0.3	1.6	2.0	0.9	0.7	4.0	1.7	1.0	1.1	1.0	1.6	1.3
STD ERR OF P	0.5	0.6	1.2	1.0	1.2	0.7	0.8	1.4	0.6	1.6	2.2	1.0	0.9	4.1	1.6	1.2	1.0	1.0	1.8	1.3
AGE: 17																				
DELTA-P	6.4	2.2	-0.8	0.1	-1.1	0.6	-0.6	1.8	-0.2	1.0	1.7	1.0	-1.3*	-0.8	-0.2	1.0	-0.3	0.2	-0.3	-1.7
STD ERR OF DP		1.4	1.0	1.1	0.9	0.5	0.5	1.4	0.2	2.1	1.5	0.7	0.6	1.5	1.4	0.8	1.6	1.4	1.5	1.5
STD ERR OF P	0.6	1.6	1.1	1.5	0.9	0.8	0.8	1.4	0.8	2.0	1.6	1.0	0.9	1.6	1.6	1.1	1.7	1.4	1.7	1.7
AGE: Ad																				
DELTA-P	7.2	2.0	-0.3	-1.0	-0.2	-1.5*	1.4*	-0.5	0.1	-0.1	-0.4	0.5	-0.4	-0.3	[illegible]	0.2	1.6	0.7	-1.3	-3.0*
STD ERR OF DP		1.5	1.2	0.9	1.1	0.7	0.6	2.0	0.3	1.1	1.3	1.1	1.1	2.1	2.2	1.1	3.1	1.8	1.6	1.5
STD ERR OF P	0.7	1.7	1.4	1.0	1.2	0.8	1.0	2.0	0.7	[illegible]	1.5	1.3	1.3	2.2	2.2	1.3	3.3	1.9	1.7	1.6
RESPONSE: 03 AGE: 13	TEXT: 0.22																			
DELTA-P	34.2	7.1#	6.2*	-4.8*	-5.8#	-2.0	2.1	28.0#	-7.1#	19.3#	3.5	0.9	-9.9#	20.9#	5.6	0.7	-2.9	5.9	0.7	-19.5#
STD ERR OF DP		1.9	2.6	2.1	2.3	1.0	1.1	3.2	1.1	4.7	3.9	1.7	1.5	4.5	7.0	2.1	2.3	3.9	3.9	2.4
STD ERR OF P	1.4	1.7	3.2	2.6	2.6	1.7	1.8	3.2	1.2	5.3	4.2	2.0	1.7	4.5	7.5	2.1	2.1	4.2	3.9	2.2
AGE: 17																				
DELTA-P	12.3	3.3	0.6	-2.4	-0.4	-1.7	1.8	26.8#	-4.4#	13.1#	15.2#	-1.4	-7.7#	21.7#	2.2	-4.8#	-1.5	4.8	-2.9	-5.5#
STD ERR OF DP		2.0	3.0	1.9	2.6	0.9	0.9	3.4	0.9	3.5	2.6	1.4	1.2	5.8	3.3	1.6	2.6	4.2	2.4	2.1
STD ERR OF P	1.4	1.8	3.7	2.1	3.1	1.6	1.7	4.8	0.3	3.9	3.6	2.0	0.8	6.6	3.3	0.9	2.4	4.5	3.0	1.9
AGE: Ad																				
DELTA-P	11.4	5.6#	-2.4	-0.6	-1.7	-4.8#	4.5#	26.8#	-3.9#	7.5#	4.2	-4.0#	-8.2#	14.0#	-2.1	-1.0	5.7	-2.6	-0.5	-8.7#
STD ERR OF DP		1.9	1.5	1.6	1.7	0.8	0.8	4.2	0.6	1.5	2.3	1.1	0.9	3.4	1.7	1.1	3.2	3.4	3.9	1.4
STD ERR OF P	0.9	2.1	1.7	2.0	1.9	1.0	1.4	4.2	0.9	1.9	2.7	1.2	0.9	3.4	1.4	1.5	3.3	3.5	[illegible]	1.2
RESPONSE: 04* AGE: 13	TEXT: 0.022																			
DELTA-P	51.5	-10.5#	-3.2	5.4#	5.1*	2.4*	-2.5*	-29.6#	7.2#	-21.6#	-5.8	-2.2	12.4#	-21.9#	-5.3	-2.1	2.0	-5.4	0.8	21.9#
STD ERR OF DP		2.5	3.0	2.2	2.3	1.2	1.2	2.6	1.0	4.6	4.5	1.8	1.5	4.2	6.4	2.1	3.0	3.4	4.6	2.9
P-VALUE	51.5	41.0	48.2	56.9	56.6	53.9	49.0	21.9	58.7	29.8	45.7	49.3	63.8	29.5	46.1	49.3	53.5	46.1	52.3	73.4
STD ERR OF P	1.4	2.6	3.6	2.6	2.4	1.9	1.8	2.2	1.4	5.2	4.8	1.9	2.0	4.2	6.9	2.3	3.2	3.6	4.7	2.6
AGE: 17																				
DELTA-P	75.3	-5.7*	0.4	3.7	-0.3	2.3*	-2.4*	-36.4#	6.2#	-16.9#	-20.7#	0.7	11.7#	-23.3#	-3.6	4.4#	2.4	-7.6	4.5	8.0*
STD ERR OF DP		2.8	3.3	2.0	2.4	1.0	1.1	2.7	0.9	4.3	2.8	1.6	1.3	5.2	4.5	1.6	3.7	5.7	2.6	3.3
P-VALUE	75.3	69.6	75.7	79.0	75.1	77.7	72.9	38.9	81.5	58.4	54.7	76.0	87.0	52.0	71.7	79.7	77.8	67.7	79.9	83.4
STD ERR OF P	1.5	3.0	4.1	2.1	2.6	1.8	1.9	3.3	1.3	4.4	3.6	2.1	1.3	5.6	4.9	1.4	3.7	5.8	3.2	3.1

EXERCISE: RB07

Part a. Which number is the SMALLEST?

RESPONSE: 04* AGE: Ad TEXT: 0.022

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	~~74.0~~	-7.9#	2.9	1.5	2.0	8.9#	-8.3#	-37.8#	5.9#	-11.2#	-4.9	5.5#	12.9#	-16.5#	1.6	1.5	-11.4*	-0.3	0.4	16.7#
STD ERR OF DP		3.0	2.0	2.1	2.4	1.1	1.0	4.0	0.7	1.8	2.8	1.8	1.7	4.8	3.1	1.5	5.7	3.6	5.1	2.3
P-VALUE	74.0	66.1	76.9	75.5	76.0	82.9	65.7	36.2	79.8	62.7	69.0	79.5	86.8	57.5	75.6	75.4	62.6	73.7	74.3	90.6
STD ERR OF P	1.3	3.5	2.1	2.5	2.7	1.5	1.8	4.1	1.1	2.4	3.3	1.8	1.9	4.9	3.0	1.8	6.1	3.6	5.6	2.1

RESPONSE: 09 AGE: 13 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	1.1	0.6	-0.1	-0.2	-0.2	-0.3	0.3	0.3	-0.0	0.1	-0.5	-0.3	-0.5	-1.1#	-0.9#	-0.5	0.6	0.4	1.7*	-0.7
STD ERR OF DP		0.5	0.4	0.5	0.4	0.2	0.2	0.6	0.1	0.7	0.4	0.3	0.3	0.3	0.3	0.4	1.0	0.7	0.7	0.4
STD ERR OF P	0.3	0.6	0.4	0.7	0.4	0.2	0.4	0.6	0.3	0.8	0.4	0.4	0.2	0.0	0.1	0.3	1.1	0.9	0.9	0.3

AGE: 17

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	0.9	0.8#	-0.2	-0.4	0.1	-0.1	0.1	1.0	-0.2	1.4	0.9*	-0.1	-0.5*	1.4	-0.6#	-0.1	0.4	-0.5	-0.3	0.2
STD ERR OF DP		0.3	0.3	0.3	0.4	0.2	0.2	0.6	0.1	0.8	0.4	0.3	0.2	1.1	0.2	0.2	0.4	0.4	0.4	0.9
STD ERR OF P	0.2	0.3	0.3	0.3	0.5	0.2	0.3	0.7	0.2	0.9	0.4	0.4	0.2	1.2	0.2	0.1	0.4	0.3	0.4	0.9

AGE: Ad

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	3.0	-0.2	-0.7	0.9	-0.2	-2.4#	2.2#	6.5#	-1.0#	2.3#	-0.6	-0.6	-2.9#	1.4	-1.5	0.2	2.0	0.1	0.6	-3.0#
STD ERR OF DP		0.7	0.6	0.8	0.7	0.4	0.4	2.4	0.3	0.7	0.7	0.6	0.4	1.5	0.8	0.5	1.6	1.8	1.5	0.4
STD ERR OF P	0.4	0.8	0.5	1.0	0.8	0.2	0.8	2.6	0.3	0.9	0.8	0.6	0.1	1.6	0.7	0.6	1.7	2.0	1.7	0.0

RB08
OBJ IV

Which number is CLOSEST to $\frac{3}{16}$?

● $\frac{5}{32}$

○ $\frac{1}{4}$

○ $\frac{5}{16}$

○ $\frac{3}{8}$

○ I don't know.

Report #: RB08

NAEP #: R22008-238

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		03-18	03-28	06-22
National P-value:				
	RB08	18.89	38.57	35.77
Timing: (in seconds)				
	Stimulus:	11	10	12
	Response:	89	90	*
	I don't know:	5	5	*
	Pause:	6	6	*
RB08	Exercise total:	111	111	*

*Time not limited by paced tape.

EXERCISE: RB08

Which number is CLOSEST to 3/16?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.9	-0.7	-0.6	1.4	-0.4	0.3	-0.3	-0.9	0.2	-0.9	0.7	-0.5	0.2	-0.9	6.7	-0.9	-0.5	-0.1	-0.4	-0.5
STD ERR OF DP		0.7	0.7	1.6	0.7	0.2	0.2	0.6	0.2	0.6	0.9	0.5	0.4	0.6	6.7	0.6	0.7	0.8	0.8	0.7
STD ERR OF P	0.6	0.2	0.3	2.3	0.3	0.9	0.5	0.0	0.8	0.0	1.6	0.3	1.0	0.0	7.3	0.0	0.4	0.5	0.5	0.4
AGE: 17																				
DELTA-P	0.3	-0.3	0.3	-0.1	0.2	0.0	-0.0	-0.3	-0.1	-0.3	-0.3	-0.3	-0.0	1.3	0.3	-0.3	0.1	-0.3	-0.0	-0.3
STD ERR OF DP		0.2	0.3	0.2	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	1.5	0.5	0.2	0.4	0.2	0.2	0.2
STD ERR OF P	0.1	0.0	0.3	0.1	0.5	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.2	1.6	0.5	0.0	0.4	0.0	0.2	0.0
AGE: Ad																				
DELTA-P	0.1	-0.1	0.0	0.2	-0.1	-0.0	0.0	0.3	-0.0	-0.1	-0.1	0.3	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	0.3	-0.1
STD ERR OF DP		0.1	0.2	0.2	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.4	0.1
STD ERR OF P	0.1	0.0	0.2	0.3	0.0	0.1	0.2	0.4	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.4	0.0
RESPONSE: 01* AGE: 13	TEXT: 5/32																			
DELTA-P	18.9	-5.2	-4.2*	2.2	6.6#	2.3*	-2.1*	-13.9#	2.9#	-9.4#	-9.6#	-3.2#	8.9#	-9.4#	-5.7	-3.5*	9.8#	-0.7	-2.1	12.2#
STD ERR OF DP		2.7	1.9	2.1	2.3	1.1	1.0	1.5	0.5	2.7	2.1	1.2	1.1	2.7	3.6	1.5	3.6	3.0	2.8	3.1
P-VALUE	18.9	13.7	14.7	21.1	25.5	21.2	16.8	5.0	21.8	9.5	9.3	15.7	27.8	9.5	13.2	15.4	28.6	18.2	16.8	31.1
STD ERR OF P	1.3	3.2	2.0	2.4	2.6	1.5	1.8	1.2	1.4	2.5	2.1	1.4	1.9	2.5	3.9	1.3	4.1	3.0	2.7	3.2
AGE: 17																				
DELTA-P	38.6	-4.3*	-2.7	-0.6	6.5#	7.9#	-7.8#	-26.3#	5.4#	-18.1#	-9.6#	-0.5	8.6#	-20.3#	-4.7	4.9*	0.8	-9.3	-3.0	15.8#
STD ERR OF DP		2.1	2.3	2.1	2.0	1.2	1.2	1.9	0.8	2.3	3.1	2.1	1.6	4.5	3.6	2.1	2.6	5.5	3.8	4.7
P-VALUE	38.6	34.3	35.9	38.0	45.1	46.5	30.8	12.3	44.0	20.4	29.0	38.1	47.2	18.3	33.9	43.5	39.4	29.3	35.6	54.4
STD ERR OF P	1.2	2.2	2.6	2.7	2.3	1.7	1.8	1.9	1.3	2.3	3.2	2.3	2.0	4.5	3.5	2.3	2.7	5.9	3.8	5.1
AGE: Ad																				
DELTA-P	35.8	-6.7#	1.0	2.7	1.4	12.4#	-11.5#	-24.2#	2.9#	-9.6#	-9.6#	2.1	12.5#	-7.8*	-10.5#	-1.2	1.6	6.7	1.8	7.3*
STD ERR OF DP		2.3	2.4	2.5	2.7	1.2	1.2	2.9	0.6	1.9	2.4	2.1	1.9	3.7	3.6	1.8	2.8	5.0	3.1	3.0
P-VALUE	35.8	29.1	36.8	38.4	37.2	48.2	24.3	11.6	38.6	26.2	26.2	37.9	48.2	28.0	25.3	34.6	37.4	42.4	37.5	43.1
STD ERR OF P	1.4	2.3	2.8	3.0	3.3	1.9	1.7	3.0	1.6	1.9	2.6	2.9	2.3	4.1	3.6	2.3	2.9	5.6	3.5	3.2
RESPONSE: 02 AGE: 13	TEXT: 1/4																			
DELTA-P	25.1	-4.5*	-0.9	1.7	3.1	-0.8	0.7	-5.4*	1.6#	-8.4#	0.1	0.7	1.9	-6.4*	-11.6#	0.5	1.7	-2.9	3.1	8.0*
STD ERR OF DP		1.9	1.5	2.3	1.8	1.0	0.9	2.2	0.4	3.0	3.2	1.3	1.1	3.0	3.6	1.6	2.9	3.2	4.5	3.3
STD ERR OF P	1.1	2.1	1.4	3.0	2.1	1.3	1.6	2.2	1.3	2.9	3.4	1.9	1.5	2.7	3.7	1.6	3.0	3.3	5.0	3.7
AGE: 17																				
DELTA-P	30.3	-1.1	-0.8	1.8	-0.5	-1.6	1.6	-2.5	0.7	1.7	3.0	-1.1	-0.8	3.3	-5.2	0.4	2.0	-0.2	3.8	-6.1
STD ERR OF DP		1.8	1.8	1.9	1.8	1.1	1.0	2.3	0.4	4.1	3.0	1.8	1.4	3.7	3.3	1.9	2.0	3.9	2.2	3.1
STD ERR OF P	1.1	1.9	2.0	2.5	2.1	1.5	1.6	2.1	1.3	4.3	2.8	2.3	1.7	3.8	3.4	2.2	2.0	4.3	2.4	3.2
AGE: Ad																				
DELTA-P	32.2	1.9	0.6	-0.1	-1.9	-0.5	0.5	-9.6#	2.1#	-3.4	4.0	2.3	-0.8	-7.4*	6.3	3.1	2.2	-12.7#	-3.9	2.6
STD ERR OF DP		1.9	2.2	2.4	2.5	1.2	1.1	3.1	0.3	2.2	2.5	2.1	2.0	3.4	4.1	1.6	3.8	4.3	3.6	3.7
STD ERR OF P	1.4	1.7	2.5	3.0	3.0	1.7	1.9	3.3	1.5	2.2	2.8	2.8	2.4	3.7	4.0	2.0	3.9	4.7	3.7	4.2
RESPONSE: 03 AGE: 13	TEXT: 5/16																			
DELTA-P	31.4	5.7*	3.7*	-2.1	-6.6#	-1.3	1.2	6.3*	-1.6#	5.9	6.6	3.0	-4.9#	10.8#	4.4	2.9	-2.3	-3.3	-3.7	-9.3#
STD ERR OF DP		2.4	1.6	2.1	1.6	1.2	1.1	2.8	0.5	4.5	3.5	1.7	1.3	3.1	5.0	1.5	3.4	3.1	4.1	3.1
STD ERR OF P	1.2	2.8	1.7	2.7	1.6	1.8	1.5	2.9	1.3	4.7	3.7	2.1	1.7	2.9	5.4	1.8	3.7	3.2	4.4	3.1
AGE: 17																				
DELTA-P	15.3	3.4	0.1	0.4	-3.4*	-3.3#	3.2#	8.3#	-1.9#	1.0	4.2	2.4	-3.0#	5.2	5.1	-1.7	-3.1	7.0	-2.0	-2.9
STD ERR OF DP		1.9	2.0	1.8	1.6	0.9	0.9	2.9	0.6	2.5	2.5	1.4	1.0	3.3	2.9	1.4	1.9	4.4	2.3	2.7
STD ERR OF P	1.1	2.1	2.2	2.4	1.8	1.3	1.4	3.1	1.1	2.7	2.5	1.9	1.4	3.5	3.0	1.7	2.0	4.7	2.4	2.8

EXERCISE: RB08

Which number is CLOSEST to 3/16?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 03 AGE: Ad	TEXT: 5/16																			
DELTA-P	13.6	1.0	-1.4	-0.8	1.5	-4.3#	4.0#	10.7#	-1.5#	2.4	3.0	-2.1	-2.4	4.3	1.1	-0.1	-3.0	3.3	-1.6	-1.7
STD ERR OF DP		1.4	1.6	1.5	2.0	0.9	0.8	3.8	0.5	1.4	2.4	1.1	1.6	2.3	2.9	1.2	2.6	4.5	3.0	2.4
STD ERR OF P	1.0	1.4	1.8	1.7	2.5	1.2	1.3	4.2	1.0	1.8	2.7	1.4	1.7	2.4	3.0	1.5	2.5	4.8	3.3	2.6
RESPONSE: [illegible] AGE: 13	TEXT: 3/8																			
DELTA-P	21.3	4.4	0.3	-2.0	-2.0	-0.4	0.4	14.5#	-3.3#	15.2#	1.5	0.6	-6.5#	7.2	6.9	1.1	-7.9#	8.8#	-2.0	-9.5#
STD ERR OF DP		2.7	1.9	2.2	2.2	1.0	0.9	2.7	0.6	3.2	3.2	1.5	1.2	3.6	4.4	1.6	2.9	3.0	2.9	1.8
STD ERR OF P	1.3	3.1	1.9	2.7	2.5	1.5	1.7	2.9	1.3	3.4	3.4	2.0	1.5	3.5	4.8	2.2	3.1	2.8	2.7	1.5
AGE: 17																				
DELTA-P	11.9	1.5	1.2	-0.5	-1.7	-1.5	1.5	17.6#	-3.4#	14.1#	3.1	-0.5	-4.1#	6.4	3.8	-2.1*	-1.0	3.5	0.9	-5.3*
STD ERR OF DP		1.5	1.4	1.3	1.5	0.9	0.9	2.5	0.6	3.3	2.0	1.1	0.8	3.3	2.0	1.0	1.9	3.1	2.6	2.4
STD ERR OF P	0.8	1.6	1.5	1.5	1.8	1.1	1.2	2.7	0.9	3.5	2.2	1.4	0.9	3.4	2.1	1.1	2.1	3.1	2.8	2.6
AGE: Ad																				
DELTA-P	10.4	2.6	0.2	-1.[illegible]	-1.0	-2.7#	2.5#	17.5#	-2.8#	7.8#	3.5*	-3.1*	-6.2#	4.7	-0.7	-2.3*	3.4	5.1	3.9	-5.6#
STD ERR OF DP		1.8	1.6	1.5	1.2	0.7	0.7	3.7	0.6	1.7	1.7	1.4	1.2	3.1	3.0	0.9	2.9	3.7	2.2	1.7
STD ERR OF P	0.9	2.0	1.9	1.8	1.2	1.1	1.1	4.0	0.8	2.2	2.1	1.5	0.9	3.1	3.2	1.2	3.3	3.9	2.2	1.7
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	2.4	0.3	1.7	-1.2	-0.8	0.0	-0.0	-0.6	0.2	-2.4#	0.7	-0.6	0.4	-1.3	-0.8	-0.1	-0.9	-1.7*	5.1	-0.9
STD ERR OF DP		1.0	1.4	0.7	0.7	0.4	0.3	0.8	0.2	0.6	1.2	0.7	0.5	0.7	1.0	0.6	0.8	0.7	3.1	0.8
STD ERR OF P	0.6	1.0	1.8	0.5	0.5	0.6	0.7	0.7	0.7	0.1	1.5	0.7	0.8	0.6	0.8	0.6	0.7	0.5	3.5	0.8
AGE: 17																				
DELTA-P	3.7	0.9	1.9*	-1.0	-1.1	-1.5#	1.5#	3.2*	-0.8#	1.6	-0.6	-0.0	-0.7	4.0	0.7	-1.2*	1.2	-0.8	0.3	-1.3
STD ERR OF DP		1.0	0.9	0.6	0.6	0.5	0.5	1.3	0.3	2.1	1.1	0.6	0.5	2.2	1.6	0.5	1.3	0.8	1.2	1.2
STD ERR OF P	0.4	1.2	1.0	0.7	0.6	0.4	0.8	1.4	0.4	2.3	1.1	0.7	0.5	2.3	1.7	0.5	1.4	0.8	1.4	1.2
AGE: Ad																				
DELTA-P	7.9	1.4	-0.4	-0.8	0.2	-4.8#	4.5#	5.3	-0.7	2.9*	-0.8	0.4	-2.9#	6.4*	3.9	0.3	-4.1#	-2.2	-0.3	-2.5
STD ERR OF DP		1.7	1.3	1.1	1.1	0.7	0.7	2.7	0.4	1.3	1.6	1.1	1.0	2.9	2.6	0.7	1.4	1.7	1.6	1.5
STD ERR OF P	0.7	2.0	1.5	1.3	1.2	0.8	1.2	2.9	0.7	1.6	1.8	1.4	0.9	3.1	2.8	0.9	1.5	1.7	1.8	1.5

R809
OBJ IV

Suppose $\frac{x}{y}$ represents a number. If the values of x and y are each doubled, the new number is

○ $\frac{1}{2}$ as large as $\frac{x}{y}$.

● equal to $\frac{x}{y}$.

○ double $\frac{x}{y}$.

○ I don't know.

Report #: R809

NAEP #: R22011-123

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		9	13	17
Package-Exercise:		07-20	08-16	05-20
National P-value:	R809	14.96	17.88	40.89

Timing: (in seconds)				
	Stimulus:	19	20	18
	Response:	25	26	25
	I don't know:	5	5	5
	Pause:	6	7	6
R809	Exercise total:	55	58	54

EXERCISE: RB09

Suppose x/y represents a number. If the value of x and y are each doubled, the new number is

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	0.2	0.0	-0.1	-0.0	0.1	-0.0	0.0	0.1	0.0	0.2	-0.2*	-0.2*	-0.0	-0.2*	0.1	-0.1	0.3	0.3	-0.2*	-0.2*
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.0	0.4	0.1	0.1	0.1	0.1	0.3	0.1	0.3	0.4	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.1	0.4	0.0	0.0	0.1	0.0	0.3	0.1	0.3	0.4	0.0	0.0
AGE: 13																				
DELTA-P	0.1	-0.0	0.0	0.1	-0.0	-0.1	0.1	0.3	-0.1	-0.1	-0.1	0.1	-0.1	0.3	-0.1	-0.1	-0.0	0.4	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.4	0.1	0.1
STD ERR OF P	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.1	0.1	0.5	0.0	0.0
AGE: 17																				
DELTA-P	0.1	0.3	-0.1	-0.1	0.0	0.1	-0.1	-0.1	0.0	-0.1	0.1	0.1	-0.1	-0.1	-0.1	0.1	0.2	-0.1	-0.0	-0.1
STD ERR OF DP		0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.4	0.0	0.0	0.1	0.2	0.0	0.0	0.1	0.0	0.3	0.3	0.0	0.0	0.0	0.2	0.2	0.0	0.1	0.0
RESPONSE: 01 AGE: 9	TEXT: 1/2 as large as x/y.																			
DELTA-P	16.9	2.0	2.2	1.9	-5.7**	0.6	-0.6	3.2	-0.4	-5.9	6.0	1.6	-1.5	2.9	2.2	3.1	-0.1	-3.9	-2.1	-4.5
STD ERR OF DP		1.6	1.9	2.1	1.8	0.9	0.9	1.9	0.4	3.4	4.9	1.4	1.3	3.3	2.3	1.8	2.2	2.4	2.2	2.4
STD ERR OF P	1.1	1.6	2.1	2.7	2.0	1.6	1.2	2.2	1.3	3.5	4.9	2.0	1.5	3.6	2.4	2.4	2.2	2.5	2.3	2.4
AGE: 13																				
DELTA-P	10.1	2.6	3.6*	-3.1**	-3.2*	-0.3	0.3	3.7*	-0.9*	7.1*	-2.9	2.3	-1.2	2.5	2.3	1.7	1.1	-2.1	-2.2	-5.3**
STD ERR OF DP		1.4	1.5	1.0	1.3	0.6	0.7	1.8	0.4	3.0	1.8	1.3	0.9	1.8	2.3	1.3	1.5	1.5	1.5	1.8
STD ERR OF P	0.8	1.6	1.9	0.9	1.4	1.0	1.1	1.8	0.9	3.1	1.8	1.6	1.2	1.9	2.3	1.8	1.6	1.5	1.7	1.8
AGE: 17																				
DELTA-P	8.5	0.2	1.0	1.2	-2.5**	0.3	-0.2	4.9**	-1.0**	4.8	-0.5	0.6	-1.7**	2.6	0.7	-0.3	0.3	7.0*	-2.6	-3.1
STD ERR OF DP		1.2	1.2	1.1	0.9	0.6	0.5	1.8	0.4	2.6	1.5	1.0	0.7	3.0	2.1	0.8	1.4	3.2	1.6	1.8
STD ERR OF P	0.6	1.3	1.4	1.4	1.0	0.9	0.8	2.1	0.7	2.7	1.6	1.2	0.9	3.2	2.2	0.9	1.5	3.2	1.6	2.0
RESPONSE: 02* AGE: 9	TEXT: equal to x/y.																			
DELTA-P	15.0	1.0	0.3	-1.3	0.3	0.5	-0.5	5.0**	-1.4**	8.7*	0.9	-0.6	-1.1	4.2	-1.5	-3.1*	2.9	3.0	1.8	-1.6
STD ERR OF DP		1.1	1.5	1.6	1.5	0.8	0.8	1.8	0.4	4.3	2.7	1.5	1.1	2.5	2.9	1.3	2.2	2.3	2.3	2.7
P-VALUE	15.0	15.9	15.3	13.6	15.3	15.5	14.4	19.9	13.5	23.7	15.8	14.4	13.9	19.2	13.5	11.9	17.9	17.9	16.8	13.4
STD ERR OF P	0.9	0.9	1.6	2.0	1.8	1.2	1.2	1.8	0.9	4.4	2.9	1.8	1.4	2.6	2.8	1.5	2.2	2.4	2.6	2.9
AGE: 13																				
DELTA-P	17.8	-1.0	-2.8	-0.2	4.2	1.3	-1.4	5.0*	-0.5	-2.7	-0.8	-1.2	1.1	3.4	3.8	-1.1	0.4	-2.8	-2.0	2.1
STD ERR OF DP		2.1	1.8	1.8	2.5	1.2	1.2	2.3	0.4	3.7	2.4	1.4	1.1	2.5	2.9	1.8	2.8	2.3	2.6	3.1
P-VALUE	17.8	16.9	15.1	17.7	22.0	19.2	16.5	22.9	17.3	15.1	17.0	16.6	18.9	21.2	21.7	16.7	18.3	15.1	15.9	19.9
STD ERR OF P	1.2	2.4	1.9	2.0	3.1	1.8	1.6	2.3	1.4	4.1	2.5	1.9	1.6	2.6	3.1	2.2	3.1	2.4	2.9	3.3
AGE: 17																				
DELTA-P	40.9	-5.7*	-3.2	-2.4	10.4**	3.6*	-3.1*	-19.1**	4.1**	-11.0**	-10.9**	-4.8**	10.4**	-11.8*	-6.6	0.7	1.0	-14.0**	4.5	13.3*
STD ERR OF DP		2.7	3.0	3.0	3.7	1.5	1.4	3.4	0.8	4.2	3.2	1.6	1.4	4.8	6.1	2.2	4.2	5.0	4.3	5.9
P-VALUE	40.9	35.2	37.7	38.5	51.2	44.5	37.8	21.8	45.0	29.9	30.0	36.1	51.2	29.1	34.3	41.6	41.9	26.9	45.4	54.1
STD ERR OF P	1.9	2.5	3.2	3.6	4.6	2.1	2.6	3.5	2.0	4.4	3.1	2.4	2.4	4.9	6.3	2.5	4.6	5.0	4.5	6.8
RESPONSE: 03 AGE: 9	TEXT: double x/y.																			
DELTA-P	46.7	-4.2*	-1.7	0.4	4.7	-0.4	0.4	-15.3**	3.0**	-6.8	-6.6	4.6*	10.5**	-14.4**	1.1	1.4	-6.7*	1.5	-2.5	12.2**
STD ERR OF DP		2.0	2.7	2.2	2.9	1.2	1.2	2.1	0.7	4.9	5.0	2.2	1.9	2.3	3.4	2.1	2.9	4.6	3.5	3.9
STD ERR OF P	1.4	2.0	3.1	2.5	3.6	1.8	1.9	2.2	1.5	5.0	5.1	2.6	2.1	2.5	3.4	2.6	3.0	4.8	3.9	3.8
AGE: 13																				
DELTA-P	64.8	0.5	-3.7	4.7**	-2.0	-0.7	0.8	-11.1**	2.2**	-6.8	3.2	-0.9	3.6**	-13.2**	-2.7	0.1	-0.9	5.4	3.5	3.0
STD ERR OF DP		2.6	1.9	1.7	2.9	1.1	1.1	3.1	0.6	5.1	4.2	1.8	1.3	3.4	4.0	2.3	2.4	2.9	3.2	3.6
STD ERR OF P	1.3	3.1	1.9	1.5	3.6	1.6	1.8	3.4	1.5	5.5	4.3	2.4	1.8	3.5	4.3	2.8	2.3	3.1	3.5	3.7

EXERCISE: RB09

Suppose x/y represents a number. If the value of x and y are each doubled, the new number is

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 03 AGE: 17 TEXT: double x/y.																				
DELTA-P	45.5	6.1#	3.8	0.2	-8.7#	-3.2*	2.8*	11.0#	-2.3#	1.8	10.9#	2.4	-5.3#	7.8	6.5	-0.4	0.3	5.1	-2.7	-9.6
STD ERR OF DP		2.4	3.0	3.0	3.5	1.4	1.2	4.3	0.8	4.1	3.5	1.8	1.3	5.9	5.8	1.9	3.8	6.3	4.7	5.3
STD ERR OF P	1.8	2.0	3.4	3.7	4.2	2.0	2.4	4.7	1.9	4.2	3.6	2.4	2.4	6.3	6.1	1.9	4.3	6.2	5.1	6.1
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	21.3	1.2	-0.7	-1.0	0.5	-0.7	0.7	7.1#	-1.1*	3.8	0.0	-5.5#	-7.9#	7.0#	-1.8	-1.3	3.6	-0.8	2.9	-6.0#
STD ERR OF DP		2.1	2.0	1.9	1.8	1.0	1.0	2.0	0.5	4.4	4.2	1.5	1.2	2.9	3.2	1.6	3.1	3.1	2.7	2.1
STD ERR OF P	1.1	2.4	2.3	2.4	2.0	1.3	1.8	2.3	1.1	4.6	4.2	1.9	1.2	3.0	3.2	1.9	3.2	3.4	3.0	2.4
AGE: 13																				
DELTA-P	7.1	-2.1*	2.8*	-1.6	1.0	-0.2	0.2	2.1	-0.7	2.6	0.6	-0.3	-3.5#	7.0#	-3.2	-0.6	-0.5	-0.9	0.8	0.3
STD ERR OF DP		1.0	1.2	1.0	1.4	0.6	0.6	1.9	0.4	2.4	2.2	1.0	0.6	2.3	1.7	1.0	1.4	1.5	1.8	1.3
STD ERR OF P	0.7	1.0	1.4	1.1	1.7	0.8	1.0	2.0	0.8	2.4	2.4	1.2	0.7	2.4	1.7	1.2	1.5	1.6	2.1	1.2
AGE: 17																				
DELTA-P	5.0	-0.9	-1.5	1.1	0.8	-0.8	0.7	3.4	-0.8*	4.6	0.3	1.7	-3.2#	1.5	-0.4	-0.1	-1.6	2.1	0.8	-0.4
STD ERR OF DP		0.9	0.8	1.2	1.2	0.6	0.5	1.9	0.3	2.5	1.5	1.1	0.7	2.0	1.5	0.9	1.0	2.5	1.3	1.8
STD ERR OF P	0.6	0.9	0.7	1.6	1.4	0.7	0.9	2.1	0.7	2.8	1.5	1.4	0.4	2.2	1.5	1.2	1.0	2.7	1.3	2.0

RB10
OBJ IV

Which fraction is the GREATEST?

○ $\frac{2}{3}$

○ $\frac{3}{4}$

● $\frac{4}{5}$

○ $\frac{5}{8}$

○ I don't know.

Report #: RB10

NAEP #: B22017-123

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		9	13	17
Package-Exercise:		06-21	02-27	04-12
National P-value:				
	RB10	3.22	26.18	89.16

Timing: (in seconds)

	Stimulus:	7	8	8
	Response:	119	99	99
	I don't know:	5	5	5
	Pause:	6	6	6
RB10	Exercise total:	137	118	118

EXERCISE: RB10

Which fraction is the GREATEST?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	0.1	0.0	-0.1	-0.1	0.2	-0.1	0.1	0.5	-0.1	-0.1	0.6	0.0	0.1	0.2	-0.1	-0.1	-0.1	0.4	0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.4	0.1	0.1	0.7	0.1	0.2	0.3	0.1	0.1	0.1	0.4	0.2	0.1
STD ERR OF P	0.1	0.1	0.0	0.0	0.3	0.1	0.2	0.5	0.0	0.0	0.7	0.1	0.2	0.4	0.0	0.0	0.0	0.5	0.2	0.0
AGE: 13																				
DELTA-P	0.3	-0.3	0.6	-0.3	-0.1	0.0	-0.0	1.3	-0.2	0.3	-0.4*	-0.0	0.1	0.0	-0.4*	-0.3	-0.2	0.0	1.3	-0.4*
STD ERR OF DP		0.2	0.4	0.2	0.2	0.2	0.2	1.1	0.2	0.4	0.2	0.2	0.1	0.8	0.2	0.2	0.2	0.3	0.8	0.2
STD ERR OF P	0.1	0.1	0.6	0.1	0.2	0.2	0.3	1.2	0.1	0.4	0.0	0.2	0.2	0.4	0.0	0.1	0.2	0.4	0.9	0.0
AGE: 17																				
DELTA-P	0.2	-0.2	-0.2	-0.1	0.5	-0.1	0.1	-0.2	0.0	-0.2	0.2	-0.2	-0.2	0.9	-0.2	-0.2	-0.2	-0.2	-0.2	0.8
STD ERR OF DP		0.1	0.1	0.2	0.4	0.1	0.1	0.2	0.0	0.1	0.4	0.1	0.1	0.6	0.1	0.2	0.1	0.1	0.1	1.0
STD ERR OF P	0.1	0.0	0.0	0.2	0.5	0.1	0.2	0.1	0.2	0.0	0.4	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	1.2
RESPONSE: 01 AGE: 9	TEXT: 2/3																			
DELTA-P	18.6	-5.4*	-3.9	3.2	4.6	1.6	-1.7	-9.3*	2.3*	-3.0	-1.1	4.2	2.8	-5.7	-5.0	1.4	-1.1	-1.3	1.2	5.9
STD ERR OF DP		1.9	2.3	2.9	3.6	0.9	0.9	2.3	0.6	3.7	3.9	2.1	1.5	3.3	3.5	2.7	2.6	3.2	3.5	3.9
STD ERR OF P	1.7	1.2	1.9	3.5	4.8	2.1	1.7	1.9	2.1	3.9	4.2	3.1	2.5	3.4	3.5	3.6	2.9	3.1	3.7	4.5
AGE: 13																				
DELTA-P	44.4	-1.6	0.2	1.2	-0.2	-4.2*	4.1*	-11.8*	2.7*	2.6	4.3	1.0	-1.6	-8.6*	-5.9	2.7	-4.0	1.6	0.3	5.1
STD ERR OF DP		2.4	2.8	2.0	2.2	1.4	1.4	3.0	0.6	3.8	4.5	1.9	1.4	2.9	3.0	1.9	3.6	3.1	4.6	3.6
STD ERR OF P	1.3	2.7	3.4	2.2	2.4	1.9	2.0	3.1	1.7	3.9	4.4	2.2	2.1	2.7	2.9	2.3	4.0	3.0	5.2	3.7
AGE: 17																				
DELTA-P	31.9	9.3*	-1.9	-1.6	-3.6	-9.7*	9.8*	11.3*	-2.1*	7.1	8.2*	1.3	-4.8*	10.8*	-2.5	2.2	0.2	-6.8	1.8	-9.4*
STD ERR OF DP		2.2	1.8	2.0	2.4	1.2	1.4	3.0	0.5	4.5	3.5	1.5	1.4	3.9	4.8	2.2	2.4	4.5	4.1	4.5
STD ERR OF P	1.3	2.3	1.8	2.3	3.1	1.4	2.2	2.9	1.5	5.0	3.7	1.9	1.7	3.9	4.9	2.4	2.4	4.4	4.5	4.9
RESPONSE: 02 AGE: 9	TEXT: 3/4																			
DELTA-P	3.0	-0.9	0.9	0.8	-0.8	0.4	-0.4	-2.1*	0.4*	-0.2	-1.6	-1.5*	1.8*	-1.3	-0.6	-1.2*	2.7	0.1	-1.5*	2.4
STD ERR OF DP		0.8	0.9	0.9	0.6	0.4	0.4	0.6	0.2	1.5	1.0	0.6	0.7	1.0	1.2	0.6	1.4	0.8	0.7	1.8
STD ERR OF P	0.5	0.9	1.0	1.1	0.6	0.7	0.6	0.5	0.6	1.5	1.0	0.6	1.0	0.9	1.2	0.6	1.6	0.8	0.7	2.0
AGE: 13																				
DELTA-P	9.1	-1.4	0.0	-1.1	2.5	0.2	-0.2	-3.3*	0.8*	-1.4	-0.4	0.6	0.2	-2.2	3.7	0.2	-1.6	2.2	-3.4	1.3
STD ERR OF DP		1.3	1.2	1.1	1.5	0.7	0.7	1.3	0.3	2.1	2.3	1.1	0.8	2.3	2.9	1.2	2.0	2.1	1.9	2.1
STD ERR OF P	0.7	1.5	1.3	1.3	1.8	0.9	1.2	1.4	0.8	2.1	2.3	1.4	1.1	2.3	3.0	1.4	2.1	2.2	2.0	2.2
AGE: 17																				
DELTA-P	10.6	0.6	-0.4	0.1	-0.2	-0.7	0.7	3.6	-0.5	7.2*	5.6*	1.1	-2.9*	0.5	5.4	-0.1	-3.2*	-0.4	0.4	-0.1
STD ERR OF DP		1.3	1.1	1.1	1.2	0.8	0.8	2.2	0.4	2.5	2.5	1.1	0.8	1.6	3.9	0.9	1.5	1.8	1.4	1.7
STD ERR OF P	0.7	1.5	1.1	1.4	1.4	1.0	1.0	2.5	0.7	2.6	2.8	1.3	0.9	1.7	4.1	1.1	1.6	1.8	1.5	1.8
RESPONSE: 03* AGE: 9	TEXT: 4/5																			
DELTA-P	3.2	-1.1	2.5*	-0.8	-0.1	0.8	-0.8	-0.3	-0.2	-0.1	-1.3	1.9*	0.1	-0.8	-1.0	0.7	-0.1	0.3	-1.3	0.6
STD ERR OF DP		0.7	0.8	0.9	0.9	0.5	0.5	0.9	0.3	1.1	1.1	0.9	0.6	1.1	1.0	1.0	0.8	1.1	0.9	1.3
P-VALUE	3.2	2.2	5.8	2.4	3.1	4.0	2.4	3.0	3.0	3.1	1.9	5.1	3.3	2.4	2.2	4.0	3.1	3.5	1.9	3.8
STD ERR OF P	0.5	0.6	0.9	1.1	1.1	0.8	0.5	0.9	0.6	1.2	1.2	1.1	0.7	1.1	1.0	1.4	0.8	1.1	0.8	1.4
AGE: 13																				
DELTA-P	26.2	-7.7*	-0.1	4.2*	2.3	5.2*	-5.1*	-17.6*	3.7*	-16.1*	-9.5*	0.2	9.4*	-17.3*	0.5	-2.9	4.6	-2.8	9.0*	3.4
STD ERR OF DP		2.0	2.4	2.1	2.2	1.1	1.0	1.6	0.6	2.5	2.4	1.5	1.3	2.7	4.6	1.6	3.3	2.5	3.7	4.4
P-VALUE	26.2	18.5	26.1	30.4	28.4	31.4	21.1	8.6	29.9	10.1	16.7	26.3	35.5	8.9	26.7	23.3	30.8	23.4	35.2	29.6
STD ERR OF P	1.3	2.0	3.0	2.5	2.5	1.6	1.6	1.5	1.4	2.2	2.4	1.8	2.1	2.4	5.1	1.6	3.4	2.7	4.1	4.7

EXERCISE: RB10

Which fraction is the GREATEST?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 03* AGE: 17	TEXT: 4/5																			
DELTA-P	49.2	-12.3*	2.6	1.1	5.8	10.3*	-10.4*	-30.6*	5.3*	-24.0*	-20.0*	-1.3	11.6*	-26.2*	-2.5	-0.2	2.4	7.3	1.7	11.0
STD ERR OF DP		2.8	2.5	2.8	3.0	1.3	1.5	2.7	0.8	3.3	3.1	1.3	1.2	3.2	6.3	2.6	3.2	4.9	4.1	5.9
P-VALUE	49.2	36.9	51.7	50.2	54.9	59.5	38.7	18.6	54.4	25.1	29.1	47.9	60.8	22.9	46.6	48.9	51.5	56.5	50.9	60.2
STD ERR OF P	1.7	2.9	2.5	3.5	3.6	2.1	2.4	2.5	1.6	3.5	3.0	2.0	2.1	3.4	6.4	2.5	3.1	5.0	4.5	6.7
RESPONSE: 04 AGE: 9	TEXT: 5/8																			
DELTA-P	70.6	7.2*	0.8	-4.1	-2.9	-1.8*	1.9*	12.7*	-2.4*	4.7	2.2	-3.1	-5.0*	6.7	5.3	-0.3	-1.3	2.0	2.2	-10.7*
STD ERR OF DP		2.2	2.4	3.6	3.2	0.9	0.9	2.4	0.7	4.0	3.8	2.1	1.7	3.6	4.3	2.6	2.6	3.6	3.1	4.6
STD ERR OF P	1.8	1.8	2.1	4.7	3.9	2.1	1.8	2.1	2.2	4.4	4.4	3.2	2.5	3.8	4.9	3.7	2.5	3.4	3.1	5.0
AGE: 13																				
DELTA-P	18.9	10.0*	-0.8	-3.4	-4.5*	-1.5	1.5	31.9*	-6.9*	13.5*	6.2*	-1.4	-7.7*	27.5*	1.9	0.2	1.1	-1.4	-6.8*	-8.6*
STD ERR OF DP		2.5	2.2	1.9	1.8	1.0	1.0	3.0	0.9	3.7	3.1	1.4	1.1	4.7	4.4	1.7	3.2	2.1	2.0	2.7
STD ERR OF P	1.2	2.9	2.6	2.1	1.9	1.5	1.7	3.3	1.0	4.2	3.2	1.7	1.1	4.8	4.6	1.9	3.7	2.1	2.2	2.8
AGE: 17																				
DELTA-P	7.5	2.0	0.1	0.7	-2.3	0.3	-0.3	14.4*	-2.5*	8.1*	5.2*	-0.3	-3.5*	13.1*	-1.1	-1.6	0.9	0.7	-3.6*	-1.9
STD ERR OF DP		1.5	1.3	1.5	1.2	0.8	0.8	2.4	0.6	3.1	2.4	1.0	0.6	3.7	2.4	1.0	1.6	3.3	1.6	1.8
STD ERR OF P	0.8	1.6	1.3	2.0	1.3	1.3	0.9	2.9	0.5	3.2	2.7	1.3	0.7	4.0	2.4	1.0	1.6	3.5	1.6	1.9
RESPONSE: E9 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	4.5	0.2	-0.2	1.0	-1.0	-1.0*	1.0*	-1.6	0.1	-1.2	1.2	-1.5*	0.2	0.8	1.4	-0.6	-0.0	-1.5	-0.7	1.9
STD ERR OF DP		0.7	0.9	1.0	0.8	0.4	0.4	0.8	0.2	1.2	2.3	0.6	0.7	1.3	1.8	0.6	1.5	0.9	1.0	1.6
STD ERR OF P	0.5	0.7	1.1	1.3	0.8	0.6	0.7	0.8	0.6	1.4	2.4	0.6	0.9	1.3	1.9	0.7	1.7	1.0	1.1	1.7
AGE: 13																				
DELTA-P	1.1	0.9*	0.1	-0.7*	-0.1	0.2	-0.2	-0.5	-0.1	1.1	-0.2	-0.3	-0.3	0.6	0.1	0.1	-0.0	0.5	-0.3	-0.8*
STD ERR OF DP		0.4	0.3	0.2	0.3	0.2	0.2	0.4	0.1	1.2	0.6	0.3	0.2	0.6	0.6	0.3	0.6	0.7	0.5	0.3
STD ERR OF P	0.2	0.5	0.3	0.2	0.4	0.3	0.2	0.4	0.2	1.2	0.6	0.3	0.3	0.6	0.6	0.3	0.6	0.7	0.5	0.3
AGE: 17																				
DELTA-P	0.6	0.7	-0.2	-0.2	-0.2	-0.2	0.2	1.5*	-0.2*	1.9	0.9	-0.5*	-0.2	0.9	1.0	-0.1	-0.0	-0.5*	-0.1	-0.5*
STD ERR OF DP		0.4	0.2	0.2	0.2	0.1	0.1	0.7	0.1	1.0	0.8	0.2	0.2	0.9	0.7	0.2	0.2	0.2	0.3	0.2
STD ERR OF P	0.1	0.5	0.2	0.3	0.2	0.1	0.3	0.7	0.1	1.1	0.8	0.0	0.2	0.9	0.7	0.2	0.2	0.0	0.4	0.0

RC01
OBJ II

Add the following numbers:

```
$ 3.06
 10.00
  9.14
  5.10
```

ANSWER ____________________

Report #: RC01

NAEP #: C10011-1234

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		06-04	0[illegible]-26	02-01	06-01
National P-value:					
	RC01	39.85	84.[illegible]	92.85	86.18

Timing: (in seconds)

		9	13	17	Adult
	Stimulus:	1	1	1	1
	Response:	41	31	31	*
RC01	Exercise total:	42	32	32	*

*Time not limited by paced tape.

SCORING GUIDE
RC01
C10011-1234

00 = No Response

10 = $27.30

11 = 27.30

20 = 2730; $2730 (any decimal error)

21 = 27.20; $27.20; 17.30; $17.30 (can misplace decimal)

22 = 17.20; $17.20 (can misplace decimal)

23 = 117210; $117210 (can misplace decimal); 11721

24 = Other Unacceptable

39 = I Don't Know.

EXERCISE: BC01

Add the following numbers: $3.06 + $10.00 + $9.14 + $5.10 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	3.1	0.8	0.5	0.4	-1.6#	0.7*	-0.7*	3.3#	-1.0#	2.0	2.1	-1.4#	-2.0#	3.6	-0.4	-1.0	1.4	1.3	-1.2	-1.7*
STD ERR OF DP		0.6	0.7	0.8	0.6	0.3	0.3	1.3	0.3	1.3	1.9	0.5	0.4	1.8	0.9	0.5	0.7	1.8	0.6	0.8
STD ERR OF P	0.4	0.6	0.7	1.0	0.7	0.5	0.5	1.5	0.3	1.4	2.2	0.4	0.4	2.0	0.9	0.6	0.7	2.0	0.6	0.8
AGE: 13																				
DELTA-P	0.4	-0.4	1.1	-0.4	-0.1	-0.1	0.1	2.5	-0.4	-0.4	0.1	-0.1	-0.2	7.6	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
STD ERR OF DP		0.4	1.2	0.4	0.4	0.2	0.2	2.3	0.4	0.4	0.2	0.1	0.2	5.7	0.4	0.4	0.4	0.4	0.4	0.4
STD ERR OF P	0.4	0.0	1.5	0.0	0.3	0.2	0.6	2.7	0.0	0.0	0.6	0.3	0.2	6.1	0.0	0.1	0.0	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.1	-0.1#	0.2#	-0.1#	-0.0	0.1#	-0.0#	0.0	-0.0	-0.1#	-0.1#	0.1#	-0.1#	0.3	-0.1#	-0.1#	-0.1#	0.0	0.1	-0.1#
STD ERR OF DP		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.2	0.0
STD ERR OF P	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.2	0.0
AGE: Ad																				
Response did not occur at this age.																				
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	39.9	-5.5*	-4.2	0.1	8.2#	-5.1#	5.3#	-17.0#	4.2#	-6.8	-5.3	3.3	7.6#	-13.2#	-3.9	2.5	3.7	-6.2	-1.4	9.6*
STD ERR OF DP		2.5	2.2	2.4	2.3	1.0	1.1	2.7	0.8	4.4	4.8	2.1	1.4	3.4	4.3	2.4	3.3	3.9	2.9	4.1
P-VALUE	39.9	34.4	35.6	40.0	48.1	34.8	45.1	22.8	44.1	33.0	33.6	43.1	47.4	26.6	36.0	42.3	43.6	33.6	38.5	49.5
STD ERR OF P	1.5	2.7	2.1	2.8	2.9	1.6	2.1	2.8	1.6	5.1	5.2	2.9	2.2	3.6	4.3	3.3	3.3	4.1	2.8	4.4
AGE: 13																				
DELTA-P	84.3	-5.0*	-5.5*	4.2*	4.3#	-2.7#	2.8#	-14.3#	3.1#	-5.3	0.4	1.5	2.1	-13.5	-4.3	-1.4	-1.7	6.0#	1.5	6.0#
STD ERR OF DP		2.0	2.7	1.7	1.5	0.8	0.9	3.4	0.8	4.3	2.6	1.2	1.1	7.8	5.6	1.6	2.1	2.0	2.0	2.0
P-VALUE	84.3	79.4	78.8	88.5	88.6	81.7	87.1	70.1	87.4	79.0	84.8	85.9	86.5	70.9	80.0	82.9	82.6	90.3	85.8	90.3
STD ERR OF P	1.2	2.2	3.4	1.9	1.3	1.5	1.5	3.8	1.0	4.7	2.9	1.5	1.5	8.1	6.1	2.0	2.1	2.0	1.9	2.0
AGE: 17																				
DELTA-P	92.5	-2.9	1.2	-0.2	1.4	-2.8#	2.4#	-10.0#	1.6#	-10.2	-4.2*	1.4	3.1#	-5.3*	0.0	-1.1	2.4	-1.2	2.4	4.3#
STD ERR OF DP		1.6	1.2	2.0	1.2	1.0	0.9	1.9	0.4	6.8	1.7	1.0	0.9	2.2	2.3	1.4	1.6	3.2	1.6	1.5
P-VALUE	92.5	89.5	93.7	92.3	93.9	89.7	94.9	82.4	94.1	82.3	88.3	93.9	95.5	87.1	92.5	91.3	94.8	91.3	94.9	96.8
STD ERR OF P	0.9	1.6	1.1	2.7	1.2	1.8	0.7	2.0	1.0	7.5	1.8	0.9	0.6	2.3	2.3	2.1	1.6	3.2	1.5	1.3
AGE: Ad																				
DELTA-P	86.2	-3.4	0.4	2.2	-0.1	-5.0#	4.6#	-14.5#	2.2#	-6.5#	-3.0	3.2	7.7#	-4.0	-2.3	1.2	-0.2	-3.0	-4.0	6.3#
STD ERR OF DP		1.9	1.9	2.0	2.4	1.3	1.2	3.6	0.5	1.9	2.9	1.7	1.3	2.8	3.6	1.3	2.3	5.6	3.7	2.4
P-VALUE	86.2	82.8	86.6	88.3	86.1	81.2	90.8	71.7	88.4	79.7	83.2	89.4	93.9	82.2	83.9	87.3	86.0	83.2	82.1	92.5
STD ERR OF P	1.2	1.9	2.1	2.5	2.9	2.2	0.9	3.8	1.3	2.4	3.3	1.6	1.2	2.8	3.5	1.6	2.5	6.2	4.3	2.4
RESPONSE: 10 AGE: 9 TEXT: $27.30																				
DELTA-P	32.4	-5.4*	-5.4*	1.4	7.6#	-3.9#	4.0#	-16.9#	4.1#	-5.5	-3.7	2.4	8.2#	-11.3#	-4.8	2.6	3.3	-5.3	-1.0	7.8
STD ERR OF DP		2.5	2.2	2.5	2.1	1.0	1.0	2.5	0.7	4.5	4.3	2.2	1.5	3.5	4.6	2.5	3.8	4.2	3.1	4.5
STD ERR OF P	1.5	2.8	2.1	3.0	2.6	1.5	2.0	2.6	1.5	5.1	4.5	3.0	2.1	3.5	4.8	3.2	3.8	4.3	3.0	4.9
AGE: 13																				
DELTA-P	74.2	-6.1*	-3.3	5.0*	2.0	-4.0#	4.2#	-18.1#	4.1#	-5.2	-0.6	0.6	4.6#	-13.7	-5.1	-0.8	-1.8	2.8	3.7	6.2*
STD ERR OF DP		2.8	3.2	2.4	2.0	1.2	1.2	3.6	0.9	4.7	4.2	1.6	1.4	7.5	6.5	2.0	3.6	2.7	2.7	2.9
STD ERR OF P	1.6	3.1	3.9	2.9	1.9	2.1	1.8	4.1	1.5	4.9	4.6	2.1	2.2	8.1	7.1	2.2	3.9	2.2	2.8	3.2
AGE: 17																				
DELTA-P	79.0	-7.0#	-0.2	0.8	4.9#	-4.0#	3.5#	-17.2#	3.6#	-11.3	-4.9	0.2	5.1#	-9.3#	2.8	-0.1	0.7	-0.5	2.8	4.0
STD ERR OF DP		2.1	1.9	2.2	1.7	1.2	1.1	2.7	0.8	6.0	2.6	1.6	1.3	3.5	4.1	1.6	3.0	4.4	3.3	2.9
STD ERR OF P	1.2	2.2	2.0	2.9	1.9	2.0	1.1	3.0	1.2	6.6	2.9	1.8	1.3	3.7	4.3	2.1	3.1	4.3	3.4	3.1

EXERCISE: RC01

Add the following numbers: $3.06 + $10.00 + $9.14 + $5.10 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 10 AGE: Ad	TEXT: $27.30																			
DELTA-P	51.3	-1.5	-4.7*	2.0	3.7	-6.5#	6.1#	-14.7#	2.6#	-6.0#	-3.2	2.8	6.2#	-7.0	1.8	3.4*	-3.8	-6.6	-2.9	3.9
STD ERR OF DP		2.1	2.3	1.9	2.7	1.4	1.3	3.5	0.5	2.3	3.3	1.7	2.3	3.9	4.0	1.6	2.7	4.9	3.3	2.7
STD ERR OF P	1.3	2.2	2.7	2.0	3.3	2.0	1.7	3.6	1.4	2.6	3.8	2.2	2.4	4.2	4.0	1.9	2.9	5.3	3.6	2.9
RESPONSE: 11 AGE: 9	TEXT: 27.30;																			
DELTA-P	7.5	-0.2	1.2	-1.3	0.6	-1.2*	1.2*	-0.2	0.1	-1.3	-2.6	0.9	-0.7	-1.9	0.9	-0.1	0.8	-0.9	-0.4	1.9
STD ERR OF DP		1.3	1.1	1.0	1.2	0.5	0.5	1.3	0.3	2.7	2.0	1.2	0.8	1.6	1.2	1.0	2.3	1.1	1.5	1.8
STD ERR OF P	0.7	1.5	1.1	1.1	1.5	0.8	0.9	1.4	0.8	2.7	2.0	1.5	0.9	1.7	[illegible]	1.0	2.6	0.9	1.6	2.1
AGE: 13																				
DELTA-P	10.2	1.1	-2.2	[illegible]	2.3	1.4	-1.4	3.8	-1.0#	-0.1	1.0	0.9	-2.5*	0.2	0.8	-0.6	0.1	3.2	-2.2	-0.3
STD ERR OF DP		1.6	1.6	1.2	1.2	0.7	0.8	2.0	0.4	2.2	3.0	1.1	1.0	3.2	3.0	1.0	2.1	1.7	1.5	2.0
STD ERR OF P	0.8	1.8	1.9	1.5	1.2	1.2	1.1	2.3	0.9	2.2	3.2	1.4	1.4	3.5	3.2	0.9	2.3	1.9	1.8	2.2
AGE: 17																				
DELTA-P	13.4	4.1#	1.5	-0.9	-3.5#	1.2	-1.1	7.1#	-2.0#	1.1	0.7	1.2	-2.1*	3.9	-2.8	-1.0	1.7	-0.7	-0.4	0.4
STD ERR OF DP		1.6	1.5	1.3	1.1	0.9	0.7	2.5	0.7	2.9	2.1	1.2	1.0	3.0	3.1	1.0	2.6	2.6	2.3	2.5
STD ERR OF P	0.8	1.8	1.7	1.6	1.2	1.3	1.0	2.9	0.7	3.1	2.3	1.4	1.1	3.2	3.3	1.1	2.7	2.4	2.5	2.7
AGE: Ad																				
DELTA-P	34.9	-1.9	5.1*	0.2	-3.7	1.6	-1.5	0.2	-0.3	-0.4	0.2	0.4	1.5	3.8	-4.1	-2.3	3.6	3.5	-1.2	2.4
STD ERR OF DP		1.9	2.2	1.8	2.1	1.2	1.1	3.1	0.5	2.2	2.8	1.7	2.2	3.5	4.1	1.5	2.4	4.5	3.5	3.1
STD ERR OF P	1.2	2.0	2.6	2.1	2.5	1.6	1.6	3.3	1.3	2.3	3.1	2.3	2.5	3.7	4.1	1.8	2.4	4.9	3.7	3.6
RESPONSE: 20 AGE: 9	TEXT: $2730; 2730 (any decimal error)																			
DELTA-P	21.7	-4.2#	4.3*	1.9	-1.6	-0.3	0.3	-5.8#	0.9	4.1	1.9	-1.4	2.1	-5.5*	-4.7*	0.0	-3.6	2.2	5.2	4.3
STD ERR OF DP		1.6	2.1	1.7	2.4	1.0	1.0	1.8	0.5	3.5	3.3	1.2	1.7	2.5	2.3	2.0	2.4	3.4	3.1	4.2
STD ERR OF P	1.2	1.5	2.3	1.8	3.0	1.3	1.7	1.8	1.3	3.9	3.6	1.9	2.1	2.6	2.2	2.3	2.3	3.8	3.2	4.6
AGE: 13																				
DELTA-P	7.7	3.7	2.5	-2.4#	-2.0*	1.8#	-1.9#	6.1#	-1.4#	5.2	1.6	-0.2	-1.9#	2.7	-0.2	0.7	0.8	-3.3#	3.5	-4.1#
STD ERR OF DP		2.0	1.4	1.1	1.0	0.6	0.6	1.9	0.4	2.8	1.9	0.9	0.8	1.8	2.4	1.2	1.7	1.1	1.8	1.2
STD ERR OF P	0.8	2.4	1.6	1.3	0.8	1.1	0.8	2.1	0.8	3.2	2.0	1.2	1.0	1.8	2.5	1.7	1.9	0.8	2.0	1.1
AGE: 17																				
DELTA-P	2.3	0.7	-0.2	-0.6	0.2	0.8*	-0.7*	4.4#	-0.8#	-0.1	3.4#	-0.4	-1.1#	2.8*	-0.8	0.0	-0.5	-1.1	0.1	-1.7#
STD ERR OF DP		0.7	0.6	0.5	0.5	0.4	0.3	1.1	0.2	1.0	1.3	0.5	0.4	1.3	0.7	0.4	0.8	0.8	0.8	0.6
STD ERR OF P	0.3	0.8	0.7	0.5	0.6	0.6	0.3	1.2	0.3	1.0	1.5	0.6	0.4	1.5	0.7	0.5	0.9	0.8	0.8	0.6
AGE: Ad																				
DELTA-P	5.9	1.8	-0.4	-1.5	0.6	2.6#	-2.4#	9.1#	-1.3#	3.5#	2.7	-1.0	-4.5#	0.8	-1.2	-0.3	0.7	1.6	4.2	-2.0
STD ERR OF DP		1.3	1.1	0.9	1.4	0.6	0.6	2.6	0.4	1.3	2.2	1.1	0.8	1.6	1.6	0.8	1.6	2.0	3.2	1.9
STD ERR OF P	0.7	1.4	1.2	0.9	1.8	1.1	0.7	2.9	0.6	1.6	2.5	1.2	0.5	1.7	1.6	0.9	1.7	2.1	3.6	1.9
RESPONSE: 21 AGE: 9	TEXT: 27.20; $27.20; 17.30; $17.30 (can misplace decimal)																			
DELTA-P	4.2	0.8	-0.4	0.5	-0.9	-0.1	0.1	-1.3	0.4*	-1.2	-2.5*	0.5	-0.2	-0.1	0.8	-0.6	0.9	-0.1	0.8	-0.8
STD ERR OF DP		0.9	0.8	0.7	0.9	0.5	0.5	0.8	0.2	1.3	1.2	1.0	0.8	1.4	1.8	0.6	1.3	1.4	1.4	1.4
STD ERR OF P	0.5	1.1	0.7	0.7	1.1	0.6	0.7	0.8	0.6	1.4	1.2	1.2	1.0	1.3	2.0	0.7	1.4	1.6	1.4	1.4
AGE: 13																				
DELTA-P	1.5	-0.2	0.1	0.4	-0.4	0.0	-0.0	0.5	-0.1	-1.1*	-1.5#	-0.3	[illegible]	0.7	0.6	0.7	0.8	-1.5#	-1.4#	-0.1
STD ERR OF DP		0.5	0.5	0.5	0.5	0.3	0.3	0.6	0.2	0.5	0.3	0.4	[illegible]	0.9	0.8	0.4	1.0	0.3	0.3	0.8
STD ERR OF P	0.3	0.5	0.5	0.7	0.5	0.4	0.4	0.7	0.3	0.5	0.0	0.5	0.5	1.0	0.9	0.6	1.1	0.0	0.1	0.9

EXERCISE: BC01

Add the following numbers: $3.06 + $10.00 + $9.14 + $5.10 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: 17 TEXT: 27.20; $27.20; 17.30; $17.30 (can misplace decimal)																				
DELTA-P	0.6	0.6	-0.1	-0.3	-0.1	0.4#	-0.3#	1.0	-0.2	0.9	0.0	-0.1	-0.2	0.6	0.1	0.0	0.4	0.1	-0.5#	-0.5#
STD ERR OF DP		0.4	0.2	0.2	0.2	0.1	0.1	0.7	0.1	0.7	0.3	0.2	0.2	0.6	0.4	0.2	0.5	0.5	0.2	0.1
STD ERR OF P	0.1	0.4	0.2	0.2	0.3	0.3	0.1	0.7	0.1	0.8	0.3	0.2	0.2	0.6	0.4	0.2	0.6	0.5	0.1	0.0
AGE: Ad																				
DELTA-P	2.0	-0.1	0.3	-0.0	-0.2	0.0	-0.0	-1.1	0.1	0.4	-0.5	0.3	-0.5	-1.5#	1.4	-0.0	0.1	-0.2	0.9	-0.4
STD ERR OF DP		0.4	0.4	0.5	0.5	0.4	0.4	0.6	0.1	0.6	0.7	0.6	0.5	0.5	1.1	0.3	0.9	1.0	1.0	1.0
STD ERR OF P	0.3	0.4	0.4	0.7	0.6	0.5	0.5	0.6	0.3	0.6	0.7	0.7	0.6	0.5	1.1	0.3	1.0	1.1	1.1	1.1
RESPONSE: 22 AGE: 9 TEXT: $17.20; 17.20 (can misplace decimal)																				
DELTA-P	0.5	0.2	0.3	-0.3	-0.1	0.1	-0.1	1.0*	-0.3*	-0.3	1.2	0.4	-0.4*	-0.2	0.4	0.3	-0.0	-0.3	-0.1	-0.5#
STD ERR OF DP		0.3	0.3	0.2	0.3	0.2	0.2	0.5	0.1	0.2	1.6	0.3	0.2	0.3	0.6	0.3	0.4	0.2	0.3	0.2
STD ERR OF P	0.1	0.4	0.4	0.1	0.3	0.2	0.2	0.6	0.1	0.2	1.7	0.4	0.2	0.3	0.6	0.4	0.4	0.2	0.4	0.0
AGE: 13																				
DELTA-P	0.3	-0.1	0.2	0.1	-0.2	0.0	0.0	0.7	-0.1	0.5	-0.0	-0.0	0.0	-0.3#	0.8	0.0	-0.2	-0.3#	-0.3#	0.2
STD ERR OF DP		0.2	0.2	0.2	0.1	0.1	0.1	0.5	0.1	0.7	0.2	0.2	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.4
STD ERR OF P	0.1	0.2	0.3	0.2	0.0	0.1	0.2	0.6	0.1	0.7	0.2	0.2	0.2	0.0	0.6	0.2	0.1	0.0	0.0	0.4
AGE: 17																				
DELTA-P	0.9	-0.9	-0.7	1.8	-0.7	0.9	-0.8	-0.9	0.2	7.8	-0.9	-0.7	-0.7	-0.9	-0.9	1.5	-0.9	-0.9	-0.9	-0.9
STD ERR OF DP		0.8	0.8	1.9	0.8	0.9	0.8	0.8	0.2	7.2	0.8	0.8	0.8	0.8	0.8	1.3	0.8	0.8	0.8	0.8
STD ERR OF P	0.8	0.0	0.2	2.6	0.1	1.6	0.1	0.0	1.0	8.0	0.0	0.1	0.1	0.0	0.0	2.1	0.0	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.1	0.1	0.2	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	0.2	-0.1	0.0	-0.1	0.3	0.9	-0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.4	0.7	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.2	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.0	0.2	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0
RESPONSE: 23 AGE: 9 TEXT: 117210; $117210 (can misplace decimal); 11721																				
DELTA-P	0.5	0.0	-0.2	0.2	-0.1	0.3	-0.3	0.4	-0.1	0.6	0.1	-0.3	-0.2	0.3	-0.0	-0.1	-0.5#	0.8	-0.3	0.1
STD ERR OF DP		0.3	0.2	0.3	0.2	0.2	0.2	0.5	0.1	0.8	0.6	0.2	0.2	0.4	0.5	0.2	0.1	0.6	0.2	0.5
STD ERR OF P	0.1	0.3	0.2	0.4	0.2	0.3	0.1	0.5	0.2	0.8	0.6	0.2	0.2	0.4	0.5	0.2	0.0	0.7	0.2	0.5
AGE: 13																				
DELTA-P	0.0	0.1	-0.0	-0.0	-0.0	0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.0	0.1	-0.0*	-0.0*	-0.0*	0.0	-0.0*	0.1	-0.0*	-0.0*	-0.0*	0.0	-0.0*	-0.0*	-0.0*	0.0	-0.0*	-0.0*	-0.0*	-0.0*
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AGE: Ad																				
Response did not occur at this age.																				
RESPONSE: 24 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	26.9	7.8#	-2.0	-2.3	-3.1	3.8#	-3.9#	19.8#	-4.1#	3.9	1.9	-0.1	-5.9#	15.4#	8.3*	-0.2	-2.1	2.9	-6.5#	-11.0#
STD ERR OF DP		2.4	2.0	1.8	1.8	1.0	1.1	2.3	0.7	3.5	4.2	1.9	1.6	3.3	3.8	1.8	2.6	2.0	2.5	2.0
STD ERR OF P	1.2	3.0	2.1	2.0	1.9	1.6	1.5	2.6	1.1	3.6	4.7	2.4	1.7	3.5	3.9	2.3	2.7	2.1	2.8	1.9

EXERCISE: RC01

Add the following numbers: $3.06 + $10.00 + $9.14 + $5.10 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 29 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	5.5	1.7*	1.3	-1.1	-1.3	1.0*	-1.0*	4.5#	-1.0#	1.4	-0.4	-0.0	-0.3	3.0	2.8	0.3	0.9	-0.8	-2.6#	-1.3
STD ERR OF DP		0.8	1.2	0.8	0.8	0.4	0.4	1.3	0.4	2.8	1.6	0.7	0.6	2.6	2.9	0.7	1.2	1.3	1.0	1.0
STD ERR OF P	0.6	0.7	1.5	1.0	0.8	0.7	0.7	1.5	0.5	3.1	1.8	0.8	0.7	2.7	3.1	0.8	1.2	1.4	0.9	1.0
AGP: 17																				
DELTA-P	3.6	2.1#	-0.4	-0.6	-0.6	0.7	-0.6	5.2#	-0.8#	1.8	1.6	-0.3	-0.8	2.3	0.8	-0.2	-1.1	3.2	-1.1	-1.0
STD ERR OF DP		0.8	0.7	0.7	0.7	0.5	0.5	1.5	0.3	1.9	1.2	0.6	0.4	1.4	1.4	0.5	1.0	2.8	0.9	1.1
STD ERR OF P	0.4	0.9	0.7	0.8	0.9	0.7	0.6	1.7	0.4	1.9	1.3	0.7	0.5	1.5	1.5	0.6	1.0	2.9	0.9	1.2
AGE: Ad																				
DELTA-P	5.5	0.8	-0.3	-0.4	0.1	2.0*	-1.8*	6.7*	-1.0#	1.7	1.1	-2.3*	-2.[illegible]#	4.8	-1.7	-0.4	-0.1	4.6	-0.6	-3.5#
STD ERR OF DP		1.2	1.2	1.4	2.0	0.8	0.8	2.7	0.4	0.9	1.8	1.0	[illegible]	2.4	1.7	1.1	1.7	5.5	1.8	1.3
STD ERR OF P	0.9	1.0	1.2	1.7	2.5	1.6	0.5	2.6	1.1	1.0	2.1	0.8	[illegible]	2.4	1.5	1.3	1.6	6.1	2.1	0.9
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	3.3	0.0	1.7	-0.6	-0.7	0.6	-0.6	-0.5	-0.1	-2.2#	1.6	-1.1	-1.0	-0.4	-0.4	-1.0	0.2	-0.5	3.5	-0.1
STD ERR OF DP		0.7	1.0	0.8	0.9	0.4	0.4	0.9	0.2	0.8	2.1	0.7	0.5	1.2	1.2	0.7	0.7	0.8	2.0	1.2
STD ERR OF P	0.5	0.6	1.2	0.9	1.1	0.7	0.5	0.8	0.5	0.8	2.2	0.6	0.6	1.2	1.2	0.8	0.6	0.8	2.3	1.3
AGE: 13																				
DELTA-P	0.2	0.2	0.3	-0.2	-0.2	0.0	-0.0	-0.2	-0.1	-0.2	-0.2	-0.2	0.0	-0.2	0.7	-0.1	-0.2	0.3	-0.2	-0.2
STD ERR OF DP		0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8	0.1	0.1	0.3	0.1	0.1
STD ERR OF P	0.1	0.2	0.4	0.0	0.0	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.8	0.1	0.0	0.4	0.0	0.0
AGE: 17																				
DELTA-P	0.1	0.4	0.0	-0.2	-0.2	-0.1	0.1	0.2	-0.0	-0.2	0.2	-0.2	-0.2	0.2	1.3	-0.2	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.4	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.3	0.1	0.1	0.3	1.4	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.5	0.2	0.0	0.0	0.1	0.2	0.3	0.1	0.0	0.3	0.0	0.0	0.4	1.5	0.0	0.0	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.3	0.9	-0.3	-0.1	-0.3	0.3	-0.3	-0.0	0.0	0.7	-0.1	-0.3	-0.3	-0.3	2.8	-0.3	-0.3	0.3	-0.3	-0.3
STD ERR OF DP		0.8	0.2	0.3	0.2	0.2	0.2	0.3	0.1	0.6	0.3	0.2	0.2	0.2	2.3	0.2	0.2	0.5	0.2	0.2
STD ERR OF P	0.2	1.1	0.0	0.2	0.0	0.5	0.0	0.3	0.3	0.8	0.2	0.0	0.0	0.0	2.5	0.0	0.0	0.6	0.0	0.0

[illegible]
[illegible]

Do the problems on this page.

A. Add:

  38
+19

ANSWER ______________________

B. Subtract:

  36
−19

ANSWER ______________________

C. Multiply:

  38
× 9

ANSWER ______________________

D. Divide:

5)125

ANSWER ______________________

Report #: MC02

SRED #: C10017-1234

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple part short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		01-05	08-11	07-03	01-10
National P-value:	MC02A	79.00	94.30	96.76	96.91
	MC02B	55.03	88.90	91.56	91.88
	MC02C	35.23	82.56	87.07	88.75
	MC02D	15.33	88.51	93.17	92.77

Timing: (in seconds)

		9	13	17	Adult
	Introduction:	6	4	4	6
	Stimulus:	2	2	1	1
	Response:	30	30	30	*
MC02A	Part total:	32	32	31	*
	Stimulus:	2	2	2	1
	Response:	30	31	31	*
	Turn page:	(6)	(6)	(6)	*
MC02B	Part total:	32**	33**	33**	*
	Stimulus:	2	1	1	1
	Response:	30	31	31	*
MC02C	Part total:	32	32	32	*
	Stimulus:	1	2	1	2
	Response:	31	31	31	*
MC02D	Part total:	32	33	32	*
MC02	Exercise total:	132	134	132	*

*Time not limited by paced tape.

**Time to turn page is not included in total times.

SCORING GUIDE
MC02
C10017-1234

Part A. 00 = No Response

10 = 57

20 = 417

21 = 47

22 = 19; 29

23 = Other Unacceptable

99 = I Don't Know.

Part B. 00 = No Response

10 = 17

20 = 27

21 = 55

22 = 45

23 = Other Unacceptable

24 = 23

99 = I Don't Know.

SCORING GUIDE
MC02
C10017-1234

Part C. 00 = No Response

10 = 342

20 = 272

21 = 2772

22 = 387

23 = Other Unacceptable; e.g., 972, 632

99 = I Don't Know.

Part D. 00 = No Response

10 = 25

20 = 21

21 = Other Unacceptable

99 = I Don't Know.

EXERCISE: BC02

Part A. Add 38 + 19

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.0	0.6	0.3	-0.4	-0.5	0.7*	-0.7*	1.6	-0.2	0.4	-0.0	0.1	-0.6*	2.7	-0.1	0.1	0.0	-1.0*	-0.6	-0.2
STD ERR OF DP		0.5	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.9	0.8	0.4	0.3	2.0	0.5	0.3	0.6	0.2	0.4	0.5
STD ERR OF P	0.2	0.7	0.6	0.3	0.3	0.4	0.2	1.1	0.2	0.9	0.9	0.5	0.2	2.1	0.6	0.4	0.7	0.0	0.4	0.5
AGE: 13																				
DELTA-P	0.1	-0.1	0.1	-0.1	0.1	0.1	-0.1	0.0	-0.0	-0.1	0.1	-0.1	0.0	0.5	-0.1	-0.1	-0.1	0.4	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.4	0.1	0.1
STD ERR OF P	0.1	0.0	0.2	0.0	0.2	0.1	0.0	0.1	0.1	0.0	0.2	0.0	0.1	0.6	0.0	0.0	0.0	0.4	0.0	0.0
AGE: 17																				
DELTA-P	0.2	-0.1	-0.2	-0.2	0.5	0.2	-0.2	-0.1	0.0	-0.2	-0.2	0.0	0.1	-0.2	-0.2	-0.2	-0.2	-0.2	1.0	-0.2
STD ERR OF DP		0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.8	0.1
STD ERR OF P	0.1	0.1	0.0	0.0	0.5	0.3	0.0	0.1	0.2	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.9	0.0
AGE: Ad																				
DELTA-P	0.2	-0.2	-0.2	0.3	0.0	0.1	-0.1	-0.2	0.0	0.0	0.5	-0.1	-0.2	0.4	-0.2	0.1	0.1	-0.2	-0.2	-0.2
STD ERR OF DP		0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.0	0.2	0.5	0.1	0.1	0.5	0.1	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.4	0.2	0.2	0.1	0.0	0.1	0.2	0.6	0.1	0.0	0.5	0.0	0.3	0.2	0.0	0.0	0.0
RESPONSE: 10* AGE: 9	TEXT: 57																			
DELTA-P	79.0	-6.6*	-4.4*	3.6*	6.5*	-2.2*	2.2*	-20.0*	4.0*	-9.1*	-13.4*	2.6	3.8*	-17.4*	-7.0	-1.3	1.3	2.5	6.0*	6.7*
STD ERR OF DP		2.0	2.0	1.4	1.7	0.8	0.8	2.9	0.7	3.9	4.8	1.6	1.5	5.6	5.5	1.5	2.2	2.3	2.3	2.1
P-VALUE	79.0	72.4	74.6	82.6	85.5	76.8	81.2	59.0	83.0	69.9	65.6	81.6	82.8	61.6	72.0	77.7	80.3	81.5	85.0	85.7
STD ERR OF P	1.0	2.3	2.4	1.5	1.9	1.3	1.3	3.3	1.0	4.1	4.8	2.0	1.6	6.0	5.8	1.7	2.5	2.3	2.2	2.0
AGE: 13																				
DELTA-P	94.3	-1.3	-0.2	0.2	1.2	-1.3*	1.2*	-4.6*	0.7*	-1.2	-2.2	0.5	0.8	-1.9	-2.1	0.9	-0.1	-0.5	-0.6	1.4
STD ERR OF DP		1.2	[illegible]	0.8	1.0	0.6	0.5	1.8	0.3	2.3	2.4	0.7	0.6	1.8	1.7	0.8	1.2	2.2	1.5	1.2
P-VALUE	94.3	93.0	[illegible]	94.5	95.5	93.0	95.5	89.7	95.0	93.1	92.1	94.8	95.1	92.4	92.3	95.2	94.2	93.9	93.7	95.7
STD ERR OF P	0.6	1.4	[illegible]	1.0	1.2	0.8	0.8	1.9	0.6	2.3	2.5	1.0	0.8	1.8	1.8	1.0	1.2	2.3	1.6	1.3
AGE: 17																				
DELTA-P	96.8	0.9	0.3	1.2*	-2.2*	0.8	-0.7	-4.3*	0.9*	1.2	-1.7	-0.8	1.4*	-4.2*	0.2	0.6	-0.6	-0.4	0.9	1.4
STD ERR OF DP		0.8	0.7	0.6	1.1	0.5	0.4	1.5	0.3	0.9	1.3	0.9	0.5	2.0	1.2	0.7	0.9	1.3	1.1	1.0
P-VALUE	96.8	97.7	97.0	97.9	94.6	97.6	96.1	92.4	97.6	98.0	95.1	96.0	98.1	92.6	97.0	97.3	96.1	96.4	97.6	98.2
STD ERR OF P	0.5	0.9	0.8	0.5	1.4	0.5	0.8	1.6	0.5	0.8	1.3	1.2	0.5	2.2	1.3	0.9	1.0	1.4	1.2	0.9
AGE: Ad																				
DELTA-P	96.9	-0.5	1.0	-0.5	-0.1	-0.8	0.7	-5.1*	0.5*	-0.5	-0.3	-0.2	1.5*	-2.3	0.8	-0.2	-1.1	1.1	1.3	0.9
STD ERR OF DP		0.9	0.8	1.3	0.9	0.6	0.6	1.8	0.2	0.8	0.9	0.7	0.7	2.1	1.3	0.8	1.9	1.4	1.0	1.3
P-VALUE	96.9	96.4	97.9	96.4	96.9	96.1	97.6	91.8	97.4	96.5	96.6	96.7	98.4	94.7	97.7	96.7	95.8	98.0	98.2	97.8
STD ERR OF P	0.6	0.9	0.7	1.7	0.9	1.1	0.5	2.0	0.6	0.9	1.1	1.1	0.7	2.2	1.2	1.2	2.0	1.3	1.0	1.3
RESPONSE: 20 AGE: 9	TEXT: 417																			
DELTA-P	1.5	1.0*	-0.6	0.0	-0.4	0.0	-0.0	3.0*	-0.6*	0.4	-0.1	-0.7	-0.7*	3.5*	0.3	0.0	-0.7	0.5	-0.3	-1.5*
STD ERR OF DP		0.4	0.4	0.5	0.5	0.3	0.3	1.1	0.2	1.4	1.1	0.4	0.3	1.4	0.6	0.4	0.5	0.8	[illegible]	0.3
STD ERR OF P	0.3	0.5	0.4	0.6	0.6	0.4	0.4	1.3	0.2	1.3	1.1	0.4	0.3	1.5	0.6	0.4	0.5	0.8	0.7	0.0
AGE: 13																				
DELTA-P	0.1	0.2	0.1	-0.1	-0.1	0.1	-0.1	0.5	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	0.0	-0.0	-0.1	0.3	-0.1
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1
STD ERR OF P	0.1	0.3	0.2	0.0	0.0	0.2	0.0	0.6	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.1	0.0	0.4	0.0
AGE: 17																				

Response did not occur at this age.

EXERCISE: RC02

Part A. Add 38 + 19

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad	TEXT: 417																			
DELTA-P	0.0	-0.1	-0.1	-0.1	0.2	-0.1	0.1	0.4	-0.1	-0.1	-0.1	-0.1	-0.1	0.5	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
RESPONSE: 21 AGE: 9	TEXT: 47																			
DELTA-P	4.6	1.1	1.2	-0.5	-1.6*	0.2	-0.3	3.9#	-0.8#	1.8	5.6*	-0.7	-0.7	3.3	-0.5	-0.4	0.3	1.1	-1.2	-0.5
STD ERR OF DP		1.3	1.1	0.8	0.8	0.5	0.5	1.0	0.3	2.0	2.7	0.9	0.7	1.9	2.1	0.7	1.2	1.6	1.1	1.2
STD ERR OF P	0.6	1.6	1.3	0.8	0.8	0.8	0.7	1.3	0.5	2.2	2.9	0.8	1.0	2.0	2.2	0.8	1.4	1.8	1.0	1.3
AGE: 13																				
DELTA-P	2.2	0.6	0.2	-0.0	-0.8	0.3	-0.3	1.9	-0.3	0.5	1.5	-0.6	-0.2	0.9	1.3	0.0	0.3	-0.4	-0.8	-0.8
STD ERR OF DP		0.7	0.6	0.5	0.5	0.4	0.4	1.0	0.2	1.3	2.1	0.5	0.4	0.8	1.3	0.5	0.6	0.8	0.7	0.6
STD ERR OF P	0.3	0.8	0.7	0.6	0.6	0.5	0.5	1.1	0.4	1.3	2.1	0.6	0.5	0.9	1.4	0.6	0.6	0.8	0.8	0.6
AGE: 17																				
DELTA-P	1.4	-0.7*	0.2	-0.4	0.9	-0.2	0.2	1.9#	-0.4#	-0.7	1.5#	0.4	-0.6*	0.9	0.0	-0.0	0.3	0.7	-0.6	-0.8
STD ERR OF DP		0.4	0.5	0.3	0.5	0.3	0.3	0.7	0.2	0.4	0.7	0.5	0.3	0.9	1.1	0.4	0.4	1.0	0.6	0.6
STD ERR OF P	0.3	0.3	0.7	0.3	0.6	0.4	0.4	0.7	0.3	0.3	0.7	0.7	0.3	0.9	1.2	0.5	0.4	1.1	0.6	0.6
AGE: Ad																				
DELTA-P	1.8	0.8	-1.1*	0.4	0.0	0.6	-0.6	4.3#	-0.5*	0.7	0.2	0.4	-1.5#	1.2	0.1	0.4	0.4	-0.5	-0.8	-1.3*
STD ERR OF DP		0.8	0.5	0.8	0.6	0.4	0.4	1.5	0.2	0.8	0.9	0.7	0.4	1.5	1.1	0.6	1.0	1.1	0.6	0.6
STD ERR OF P	0.4	0.9	0.4	1.1	0.6	0.8	0.3	1.7	0.4	0.9	1.0	1.0	0.2	1.5	1.1	0.9	1.1	1.0	0.6	0.5
RESPONSE: 22 AGE: 9	TEXT: 19; 29																			
DELTA-P	0.5	0.1	0.5	-0.3	-0.3	0.2	-0.2	0.2	0.0	0.6	-0.5#	-0.1	0.2	-0.5#	0.7	0.2	-0.1	-0.5#	0.2	0.2
STD ERR OF DP		0.3	0.3	0.2	0.2	0.1	0.1	0.4	0.1	1.1	0.2	0.3	0.3	0.2	0.8	0.3	0.3	0.2	0.4	0.3
STD ERR OF P	0.1	0.3	0.4	0.2	0.2	0.2	0.2	0.4	0.2	1.1	0.0	0.3	0.3	0.0	0.9	0.3	0.3	0.0	0.5	0.3
AGE: 13																				
DELTA-P	1.1	-0.3	-0.2	0.2	0.2	0.9#	-0.8#	-1.0#	0.1	-0.5	-0.3	0.5	-0.1	-0.0	1.1	-0.5	-1.0#	0.7	0.2	0.7
STD ERR OF DP		0.4	0.5	0.4	0.5	0.3	0.3	0.3	0.1	0.6	0.6	0.4	0.3	1.0	0.9	0.3	0.3	1.1	0.8	0.7
STD ERR OF P	0.3	0.5	0.5	0.5	0.5	0.5	0.2	0.1	0.3	0.6	0.6	0.6	0.4	1.1	1.0	0.3	0.1	1.2	0.8	0.8
AGE: 17																				
DELTA-P	0.4	0.6	-0.2	0.1	-0.4*	-0.2	0.2	1.2	-0.2	0.2	0.3	-0.1	-0.0	0.2	1.1	-0.4*	0.1	0.9	-0.4*	-0.4*
STD ERR OF DP		0.5	0.2	0.3	0.2	0.2	0.2	0.9	0.1	0.6	0.4	0.2	0.2	0.6	0.7	0.2	0.3	1.1	0.2	0.2
STD ERR OF P	0.2	0.6	0.2	0.3	0.0	0.1	0.3	1.0	0.1	0.6	0.5	0.2	0.3	0.6	0.7	0.0	0.3	1.2	0.0	0.0
AGE: Ad																				
DELTA-P	0.1	0.2	-0.0	-0.1*	0.0	0.1	-0.1	0.2	-0.0	0.4	-0.1*	-0.1	-0.1*	0.3	-0.1*	-0.1	0.0	-0.1*	0.5	-0.1*
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.2	0.1	0.1	0.1	0.4	0.1	0.1	0.2	0.1	0.4	0.1
STD ERR OF P	0.1	0.2	0.1	0.0	0.2	0.1	0.1	0.3	0.1	0.3	0.0	0.1	0.0	0.4	0.0	0.1	0.2	0.0	0.4	0.0
RESPONSE: 23 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	12.2	3.2*	2.2	-1.5	-3.4#	1.1	-1.1	9.6#	-2.0#	3.5	8.9	-1.5	-1.7	6.8*	4.6	1.3	-0.9	-1.8	-3.6	-3.1
STD ERR OF DP		1.3	1.3	1.2	1.3	0.7	0.8	2.0	0.4	3.2	4.6	1.3	1.2	3.0	4.1	1.3	1.7	1.8	1.9	1.6
STD ERR OF P	0.7	1.5	1.5	1.4	1.4	1.1	0.9	2.2	0.8	3.2	4.6	1.5	1.4	3.2	4.3	1.6	1.8	1.8	1.8	1.7
AGE: 13																				
DELTA-P	2.1	0.9	-0.1	-0.2	-0.5	-0.1	0.1	3.2#	-0.5#	1.5	1.1	-0.4	-0.4	0.7	-0.1	-0.4	0.9	-0.0	1.0	-1.2*
STD ERR OF DP		0.7	0.6	0.5	0.5	0.3	0.3	1.0	0.1	1.5	1.1	0.4	0.3	0.8	0.9	0.4	1.0	0.9	1.1	0.5
STD ERR OF P	0.3	0.8	0.6	0.6	0.5	0.4	0.4	1.1	0.3	1.6	1.2	0.5	0.4	0.8	0.9	0.5	1.1	0.9	1.3	0.6

EXERCISE: RC02

Part A. Add 38 + 19

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	PO[illegible]	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 23 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	1.3	-0.6	-0.1	-0.7*	1.3*	-0.6*	0.5*	1.4	-0.3	-0.6	0.2	0.5	-0.9#	3.2	-1.1#	-0.0	0.5	-1.0#	-0.9*	-0.1
STD ERR OF DP		0.4	0.4	0.3	0.6	0.3	0.3	1.1	0.2	0.4	0.9	0.5	0.3	1.7	0.3	0.4	0.7	0.4	0.4	0.8
STD ERR OF P	0.3	0.3	0.5	0.2	0.8	0.2	0.5	1.2	0.3	0.4	1.0	0.6	0.2	1.9	0.2	0.5	0.8	0.3	0.3	0.8
AGE: Ad																				
DELTA-P	0.9	-0.5	0.3	0.2	-0.1	-0.0	0.0	0.4	-0.0	-0.5	-0.1	0.1	0.4	0.1	-0.5	-0.2	0.7	-0.2	-0.7*	0.8
STD ERR OF DP		0.3	0.5	0.4	0.4	0.3	0.2	0.7	0.1	0.3	0.4	0.4	0.5	0.7	0.4	0.3	0.9	0.7	0.3	1.1
STD ERR OF P	0.2	0.3	0.6	0.5	0.8	0.4	0.3	0.8	0.3	0.2	0.4	0.5	0.7	0.7	0.4	0.3	1.0	0.7	0.2	1.2
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	1.2	0.7	0.7	-0.9*	-0.4	0.0	-0.0	1.8	-0.4*	2.4	-0.3	0.2	-0.3	1.5	2.0	0.1	0.2	-0.8	-0.6	-1.2#
STD ERR OF DP		0.9	0.7	0.4	0.4	0.2	0.2	1.1	0.2	1.9	0.9	0.6	0.4	1.8	2.6	0.4	0.6	0.5	0.5	0.3
STD ERR OF P	0.3	1.1	0.8	0.2	0.3	0.3	0.5	1.3	0.2	2.0	0.8	0.7	0.6	1.9	2.8	0.5	0.6	0.4	0.4	0.0
AGE: 13																				
Response did not occur at this age.																				
AGE: 17																				
Response did not occur at this age.																				
AGE: Ad																				
DELTA-P	0.0	0.2	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

EXERCISE: RC02

Part B. Subtract 36 - 19

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	PO[illegible]	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.0	0.6	1.0	-1.3#	-0.1	0.2	-0.2	3.4*	-0.7#	1.2	-0.7	1.3	-1.0*	4.0	0.9	0.5	-0.3	-1.6#	-1.8#	-0.2
STD ERR OF DP		0.7	0.8	0.4	0.5	0.3	0.3	1.4	0.3	1.8	0.9	0.9	0.4	2.5	1.8	0.5	0.8	0.5	0.4	0.6
STD ERR OF P	0.4	0.9	1.0	0.3	0.6	0.4	0.5	1.6	0.3	1.9	1.0	1.1	0.4	2.6	1.9	0.6	0.8	0.4	0.2	0.6
AGE: 13																				
DELTA-P	0.2	0.0	-0.0	0.0	-0.0	0.1	-0.1	0.3	-0.0	-0.2*	-0.0	0.1	-0.1	0.4	-0.2*	0.0	0.1	0.3	-0.2*	-0.2*
STD ERR OF DP		0.1	0.2	0.2	0.1	0.1	0.1	0.3	0.0	0.1	0.2	0.2	0.1	0.6	0.1	0.1	0.3	0.4	0.1	0.1
STD ERR OF P	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.1	0.0	0.2	0.2	0.1	0.6	0.0	0.2	0.3	0.4	0.0	0.0
AGE: 17																				
DELTA-P	0.2	-0.2	-0.1	-0.2	0.4	0.2	-0.2	0.1	0.0	-0.2	0.1	-0.0	0.1	0.2	-0.2	-0.2	-0.2	-0.2	1.0	-0.2
STD ERR OF DP		0.1	0.2	0.1	0.4	0.2	0.1	0.3	0.0	0.1	0.3	0.2	0.2	0.4	0.1	0.1	0.1	0.1	0.8	0.1
STD ERR OF P	0.1	0.1	0.1	0.0	0.5	0.3	0.0	0.3	0.2	0.0	0.3	0.2	0.3	0.4	0.0	0.0	0.0	0.0	0.9	0.0
AGE: Ad																				
DELTA-P	0.2	-0.2	-0.2	0.3	0.0	0.1	-0.1	-0.2	0.0	0.0	0.5	-0.1	-0.2	0.4	-0.2	0.1	0.1	-0.2	-0.2	-0.2
STD ERR OF DP		0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.0	0.2	0.5	0.1	0.1	0.5	0.1	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.4	0.2	0.2	0.1	0.0	0.1	0.2	0.6	0.1	0.0	0.5	0.0	0.3	0.2	0.0	0.0	0.0

EXERCISE: RC02

Part D. Subtract 36 - 19

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 10* AGE: 9	TEXT: 17																			
DELTA-P	55.0	-10.5*	-3.0	3.9	8.2*	-3.9*	4.0*	-21.7*	5.1*	-16.5*	-9.8	0.3	8.6*	-24.0*	-4.7	-1.8	-0.2	0.1	3.5	16.3*
STD ERR OF DP		2.9	2.2	2.7	2.5	1.0	1.0	2.5	0.9	5.0	5.1	2.2	2.0	4.3	7.1	2.2	3.7	3.2	3.6	3.5
P-VALUE	55.0	44.5	52.0	58.9	63.3	51.1	59.0	33.3	60.1	38.5	45.2	55.3	63.7	31.0	50.3	53.3	54.8	55.1	58.6	71.4
STD ERR OF P	1.5	3.4	2.2	3.2	2.8	1.6	2.0	2.6	1.8	5.0	4.9	2.7	2.7	4.4	7.5	2.3	4.0	3.4	3.8	3.7
AGE: 13																				
DELTA-P	88.9	-1.1	-3.4	1.1	3.2*	-2.8*	2.6*	-10.1*	1.6*	-1.9	-7.0*	1.5	2.3*	-7.0*	-1.1	-0.5	0.9	-1.2	0.1	5.6*
STD ERR OF DP		1.5	1.8	1.3	1.2	0.9	0.8	2.6	0.4	3.2	2.3	1.0	0.9	1.9	2.4	1.4	1.2	2.7	2.0	1.3
P-VALUE	88.9	87.8	85.6	90.0	92.1	86.1	91.5	78.8	90.5	87.0	81.9	90.4	91.2	81.9	87.9	88.5	89.8	87.7	89.0	94.5
STD ERR OF P	0.9	1.6	2.2	1.6	1.2	1.4	1.0	2.7	1.0	3.5	2.8	1.1	1.3	1.9	2.6	1.9	1.2	2.8	2.0	1.1
AGE: 17																				
DELTA-P	91.6	-1.3	-2.6	1.6	1.8	-1.9*	1.7*	-9.9*	2.0*	-5.5	-6.2*	-0.8	3.4*	-6.2	-4.1	1.1	0.3	0.7	1.6	2.7
STD ERR OF DP		1.3	1.7	1.0	1.3	0.6	0.5	2.8	0.6	3.0	2.2	1.1	0.8	3.6	2.9	1.0	1.4	1.9	1.6	1.4
P-VALUE	91.6	90.3	89.0	93.2	93.4	89.7	93.2	81.7	93.6	86.1	85.4	90.7	95.0	85.4	87.5	92.7	91.9	92.3	93.1	94.2
STD ERR OF P	0.8	1.3	2.1	1.0	1.6	1.0	0.9	3.2	0.7	3.2	2.5	1.5	0.7	3.9	3.2	1.2	1.4	2.0	1.6	1.3
AGE: Ad																				
DELTA-P	91.5	-1.7	0.7	-0.3	1.1	-0.2	0.2	-9.9*	1.4*	-2.4	-4.7*	1.8	4.0*	-9.3*	-2.5	0.2	0.4	4.3*	-0.0	4.8*
STD ERR OF DP		1.4	1.3	1.1	1.2	0.7	0.7	2.3	0.3	1.3	2.0	1.2	1.1	2.9	2.4	0.8	1.7	2.1	1.6	1.6
P-VALUE	91.5	89.8	92.2	91.2	92.6	91.3	91.7	81.6	92.9	89.0	86.7	93.2	95.5	82.2	89.0	91.7	91.9	95.8	91.4	96.2
STD ERR OF P	0.7	1.5	1.5	1.3	1.4	1.0	1.0	2.4	0.7	1.5	2.3	1.2	1.2	2.9	2.6	1.0	1.7	2.2	1.8	1.7
RESPONSE: 20 AGE: 9	TEXT: 27																			
DELTA-P	2.6	-0.2	1.0	-0.7	-0.1	-0.3	0.3	2.0	-0.3	3.7	-1.2	-0.2	0.2	3.1	-0.8	0.3	0.7	-0.5	-0.6	-1.7*
STD ERR OF DP		0.7	0.8	0.6	0.5	0.3	0.3	1.4	0.3	2.8	1.0	0.7	0.6	2.8	0.9	0.6	0.9	0.8	0.7	0.7
STD ERR OF P	0.4	0.8	1.1	0.7	0.4	0.5	0.5	1.6	0.4	2.8	1.0	0.7	0.8	3.0	0.9	0.7	1.0	0.8	0.7	0.6
AGE: 13																				
DELTA-P	1.3	0.3	0.3	0.2	-0.8*	0.4	-0.3	1.1	-0.3*	0.0	1.0	-0.2	-0.4	2.8*	-1.2*	0.5	-0.1	0.3	-0.9*	-1.1*
STD ERR OF DP		0.5	0.6	0.4	0.3	0.3	0.3	0.7	0.1	1.0	1.0	0.4	0.3	1.1	0.3	0.4	0.6	0.8	0.4	0.3
STD ERR OF P	0.3	0.6	0.7	0.5	0.2	0.5	0.3	0.8	0.2	1.0	1.0	0.4	0.4	1.2	0.1	0.5	0.6	0.9	0.4	0.2
AGE: 17																				
DELTA-P	1.1	0.8	-0.6	-0.6*	0.5	-0.3	0.3	1.2	-0.1	1.7*	0.4	0.3	-0.5*	-0.1	0.2	0.5	-0.3	-0.7	-0.0	-0.7
STD ERR OF DP		0.5	0.3	0.3	0.6	0.2	0.2	0.6	0.1	0.8	0.5	0.4	0.2	0.5	0.6	0.4	0.5	0.4	0.6	0.4
STD ERR OF P	0.2	0.5	0.3	0.2	0.7	0.3	0.4	0.7	0.3	0.8	0.5	0.6	0.2	0.5	0.6	0.6	0.5	0.3	0.6	0.4
AGE: Ad																				
DELTA-P	2.0	-0.4	-0.8	1.2	-0.2	-0.4	0.3	1.1	-0.2	0.6	0.1	-0.8	-0.1	-0.9	-0.3	0.7	-0.3	-0.2	-0.5	-0.4
STD ERR OF DP		0.5	0.6	0.7	0.7	0.4	0.4	1.2	0.2	0.5	0.7	0.5	0.7	0.7	1.0	0.5	1.2	1.6	1.2	0.9
STD ERR OF P	0.4	0.5	0.6	1.0	0.8	0.4	0.6	1.3	0.4	0.6	0.8	0.6	0.8	0.7	0.9	0.7	1.3	1.7	1.3	1.0
RESPONSE: 21 AGE: 9	TEXT: 55																			
DELTA-P	0.9	0.1	-0.4	0.5	-0.1	0.1	-0.1	-0.3	0.0	1.4	1.2	-0.5	0.3	-0.2	-0.2	-0.2	1.6*	-0.5	0.0	-0.7*
STD ERR OF DP		0.4	0.3	0.4	0.3	0.2	0.2	0.3	0.1	1.4	1.4	0.3	0.3	0.5	0.5	0.3	0.6	0.4	0.5	0.3
STD ERR OF P	0.2	0.5	0.3	0.4	0.4	0.3	0.3	0.4	0.2	1.4	1.5	0.2	0.4	0.6	0.6	0.3	0.7	0.4	0.5	0.2
AGE: 13																				
DELTA-P	1.1	-0.5	0.4	0.1	-0.1	0.0	-0.0	0.4	-0.1	-1.1*	1.4	-0.3	0.1	0.4	-0.7*	0.3	-0.3	0.8	0.5	-1.1*
STD ERR OF DP		0.3	0.5	0.4	0.4	0.3	0.2	0.7	0.1	0.2	1.0	0.3	0.2	0.6	0.4	0.4	0.6	0.8	0.6	0.2
STD ERR OF P	0.2	0.3	0.6	0.5	0.4	0.3	0.3	0.8	0.3	0.0	1.2	0.3	0.4	0.6	0.3	0.6	0.6	0.9	0.6	0.0
AGE: 17																				
DELTA-P	0.6	-0.2	0.1	0.4	-0.3	0.3	-0.3	0.7	-0.1	0.2	0.2	0.6	-0.6*	-0.6*	1.9	-0.1	-0.2	-0.2	0.1	-0.6*
STD ERR OF DP		0.2	0.4	0.3	0.2	0.2	0.2	1.0	0.1	0.5	0.5	0.4	0.2	0.2	1.1	0.2	0.3	0.3	0.4	0.2
STD ERR OF P	0.2	0.2	0.6	0.4	0.2	0.4	0.1	1.1	0.2	0.5	0.5	0.6	0.0	0.0	1.2	0.3	0.3	0.3	0.4	0.0

EXERCISE: RC02

Part B. Subtract 36 - 19

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad	TEXT: 55																			
DELTA-P	0.4	-0.2	0.3	-0.1	0.1	0.2	-0.2	0.5	-0.1	0.1	0.1	-0.1	0.1	1.3	-0.4#	-0.0	0.1	-0.4#	-0.2	-0.4#
STD ERR OF DP		0.2	0.3	0.3	0.3	0.2	0.2	0.8	0.1	0.3	0.4	0.2	0.3	1.0	0.2	0.2	0.6	0.2	0.3	0.2
STD ERR OF P	0.2	0.1	0.4	0.3	0.3	0.3	0.2	0.9	0.2	0.3	0.4	0.3	0.3	1.1	0.0	0.1	0.6	0.0	0.2	0.0
RESPONSE: 22 AGE: 9	TEXT: 45																			
DELTA-P	0.4	0.2	0.1	-0.2	0.0	0.3	-0.3	0.5	-0.0	-0.4#	0.9	-0.2	0.0	-0.4#	0.1	0.3	-0.4#	-0.4#	0.1	0.2
STD ERR OF DP		0.3	0.2	0.2	0.3	0.1	0.1	0.4	0.1	0.1	0.9	0.2	0.2	0.1	0.5	0.2	0.1	0.1	0.3	0.5
STD ERR OF P	0.1	0.4	0.3	0.2	0.3	0.3	0.1	0.5	0.2	0.0	1.0	0.2	0.3	0.0	0.5	0.1	0.0	0.0	0.3	0.6
AGE: 13																				
DELTA-P	0.1	0.1	0.0	-0.1	-0.1	0.0	-0.0	0.3	-0.1	0.6	-0.1	-0.1	-0.0	0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.6	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.3	0.0	0.6	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0
AGE: 17																				
Response did not occur at this age.																				
AGE: Ad																				
DELTA-P	0.0	0.1	0.1	-0.1	-0.1	-0.1	0.0	0.2	-0.0	0.0	0.1	-0.1	-0.1	0.5	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
RESPONSE: 23 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	17.8	2.6	1.3	-0.3	-3.3*	1.4*	-1.4*	6.8#	-1.6#	7.2	4.9	0.9	-3.3*	5.8#	1.0	-0.4	1.5	2.3	-2.6	-4.5#
STD ERR OF DP		1.8	1.5	1.8	1.5	0.6	0.6	1.8	0.6	4.1	4.2	1.5	1.3	2.5	2.8	1.3	2.4	2.7	1.8	1.7
STD ERR OF P	1.0	2.0	1.7	2.2	1.7	1.2	1.2	1.9	1.1	4.5	4.3	1.7	1.5	2.6	2.9	1.6	2.6	3.0	1.8	1.9
AGE: 13																				
DELTA-P	6.2	0.4	1.7	-0.3	-1.7*	1.6*	-1.5#	4.8*	-0.6	0.2	2.5	-0.7	-0.9	1.9	2.9	-0.4	-0.5	1.1	0.4	-1.9
STD ERR OF DP		1.0	1.2	1.1	0.8	0.7	0.6	2.1	0.3	2.2	1.9	0.9	0.7	1.9	2.3	0.8	1.0	1.8	1.5	1.1
STD ERR OF P	0.6	1.0	1.4	1.5	0.7	1.1	0.6	2.4	0.7	2.4	2.2	0.8	0.9	1.9	2.6	1.0	1.0	2.0	1.7	1.0
AGE: 17																				
DELTA-P	5.1	1.5	2.7*	-0.7	-3.0#	1.4#	-1.2#	4.2*	-1.2#	3.7	3.2	-0.6	-1.4#	3.3	3.1	-1.0	0.1	0.3	-2.2*	-0.2
STD ERR OF DP		0.9	1.2	0.7	0.6	0.4	0.4	1.8	0.4	3.0	1.8	0.7	0.6	2.3	2.2	0.6	1.0	1.9	1.0	1.2
STD ERR OF P	0.5	0.9	1.6	0.8	0.6	0.7	0.6	2.1	0.4	3.2	2.1	0.9	0.5	2.4	2.4	0.7	0.9	2.1	0.9	1.2
AGE: Ad																				
DELTA-P	5.2	1.6	0.2	-0.7	-0.8	0.5	-0.5	6.7#	-0.9#	1.6	3.9*	-0.6	-3.2#	6.7*	3.3	-0.8	-0.8	-2.8*	1.0	-3.1*
STD ERR OF DP		1.0	1.1	0.8	0.9	0.6	0.5	2.2	0.3	1.1	1.7	0.9	0.8	2.8	2.4	0.6	1.2	1.2	1.5	1.3
STD ERR OF P	0.5	1.0	1.4	0.8	1.0	0.8	0.8	2.3	0.6	1.3	2.0	[illegible]	0.9	2.9	2.6	0.7	1.1	1.2	1.6	1.5
RESPONSE: 24 AGE: 9	TEXT: 23																			
DELTA-P	18.0	6.0#	-0.7	-1.2	-3.3*	1.9#	-2.0#	7.7#	-2.1#	1.7	[illegible]	-1.5	-4.0#	7.9	0.2	1.4	-2.9	2.4	0.7	-7.1#
STD ERR OF DP		2.1	2.0	1.5	1.5	0.8	0.8	2.5	0.7	4.1	[illegible]	1.3	1.8	5.3	3.0	1.5	2.1	2.1	2.9	2.6
STD ERR OF P	1.0	2.4	2.5	1.7	1.6	1.3	1.3	2.8	1.1	4.4	[illegible]	2.3	1.7	5.4	3.1	1.8	2.1	2.4	3.2	2.9
AGE: 13																				
DELTA-P	2.2	0.7	1.0	-1.0*	-0.4	0.6	-0.6	3.1#	-0.6#	2.4	[illegible]	[illegible]	-1.1#	1.4	0.3	0.5	-0.1	-1.2	-0.3	-1.3#
STD ERR OF DP		0.6	0.7	0.4	0.5	0.4	0.4	1.0	0.2	1.7	1.7	[illegible]	0.3	0.4	0.7	0.6	0.8	0.7	0.9	0.5
STD ERR OF P	0.3	0.7	0.9	0.4	0.5	0.6	0.4	1.1	0.4	1.8	[illegible]	[illegible]	[illegible]	0.8	[illegible]	0.6	0.8	0.6	1.0	0.4

EXERCISE: RC02

Part B. Subtract 36 - 19

RESPONSE: 24 AGE: 17 TEXT: 23

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.4	-0.6	0.5	-0.5	0.5	0.3	-0.3	3.7*	-0.7*	0.2	2.3*	0.6	-1.0*	3.4	-0.9	-0.3	0.3	0.2	-0.3	-1.0*
STD ERR OF DP		0.4	0.4	0.5	0.7	0.3	0.3	1.4	0.2	0.5	0.6	0.7	0.3	2.0	0.5	0.5	0.4	0.4	0.6	0.5
STD ERR OF P	0.3	0.4	0.4	0.7	0.8	0.5	0.3	1.5	0.3	0.5	0.6	0.9	0.2	2.2	0.4	0.6	0.4	0.3	0.6	0.4
AGE: Ad																				
DELTA-P	0.4	0.4	-0.1	-0.3*	0.1	-0.1	0.1	0.8	-0.1	0.4	0.3	-0.3*	-0.4*	0.6	0.1	-0.1	0.2	-0.4*	0.2	-0.4*
STD ERR OF DP		0.3	0.2	0.1	0.3	0.1	0.1	0.5	0.1	0.2	0.4	0.1	0.1	0.5	0.4	0.1	0.4	0.1	0.5	0.1
STD ERR OF P	0.1	0.4	0.1	0.1	0.3	0.1	0.2	0.6	0.1	0.3	0.4	0.1	0.0	0.6	0.4	0.1	0.4	0.0	0.5	0.0

RESPONSE: 39 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.2	1.3	0.8	-0.5	-1.3	0.3	-0.3	1.7	-0.4	1.7	-1.3	0.7	-1.0	2.9	3.3	-0.1	0.0	-1.8*	0.7	-2.4*
STD ERR OF DP		1.2	1.0	0.7	0.7	0.3	0.3	1.2	0.3	2.2	1.2	0.8	0.6	2.0	3.0	0.7	0.7	0.8	1.1	0.7
STD ERR OF P	0.5	1.4	1.2	0.8	0.7	0.6	0.5	1.4	0.5	2.3	1.3	1.1	0.6	2.1	3.3	0.8	0.6	0.7	1.3	0.5
AGE: 13																				
DELTA-P	0.0	0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.3	0.4	-0.1	-0.0	-0.3*	-0.1	0.1	0.7	-0.2	-0.3*	-0.3*	0.2	-0.3*	0.8	0.1	-0.0	0.1	-0.3*	-0.3*	-0.3*
STD ERR OF DP		0.3	0.2	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.2	0.1	0.7	0.4	0.1	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.4	0.2	0.2	0.0	0.1	0.2	0.6	0.1	0.0	0.0	0.3	0.0	0.8	0.4	0.2	0.3	0.0	0.0	0.0

EXERCISE: RC02

Part C. Multiply 38 x 9

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	7.6	3.6*	-1.6	-0.1	-1.5	1.2	-1.2	5.0*	-1.6*	6.8	-3.4	-0.5	-3.0*	6.3	-0.6	0.0	0.2	1.4	-2.6	-1.7
STD ERR OF DP		1.5	1.4	1.4	1.1	0.6	0.6	1.7	0.5	3.4	1.8	1.2	0.9	3.2	1.9	1.2	2.1	2.0	1.6	1.3
STD ERR OF P	0.8	1.7	1.6	1.6	1.2	1.1	0.9	2.0	0.6	3.9	1.8	1.5	0.9	3.4	1.8	1.5	2.4	2.1	1.6	1.3
AGE: 13																				
DELTA-P	0.9	0.8	0.0	-0.5	-0.3	0.5*	-0.4*	3.1*	-0.4*	0.1	0.8	0.0	-0.5*	1.9	0.9	-0.2	-0.7*	0.5	-0.3	-0.6
STD ERR OF DP		0.5	0.4	0.3	0.3	0.2	0.2	1.2	0.2	1.0	1.0	0.4	0.2	1.7	1.0	0.3	0.3	0.6	0.5	0.4
STD ERR OF P	0.2	0.6	0.5	0.4	0.3	0.4	0.2	1.3	0.2	1.0	1.0	0.4	0.3	1.8	1.1	0.3	0.2	0.7	0.5	0.3
AGE: 17																				
DELTA-P	0.3	-0.1	-0.0	-0.2	0.3	0.2	-0.2	0.8	-0.1	0.1	-0.3*	-0.3*	0.1	0.6	-0.2	0.1	-0.3*	-0.3*	0.5	-0.3*
STD ERR OF DP		0.2	0.2	0.2	0.4	0.2	0.1	0.6	0.1	0.5	0.2	0.1	0.2	0.7	0.2	0.2	0.2	0.2	0.7	0.2
STD ERR OF P	0.1	0.2	0.2	0.1	0.5	0.3	0.1	0.6	0.2	0.5	0.0	0.0	0.3	0.8	0.2	0.2	0.0	0.0	0.8	0.0
AGE: Ad																				
DELTA-P	0.3	-0.3*	-0.1	0.2	0.1	0.3	-0.2	-0.3*	0.1	-0.1	0.3	-0.0	-0.1	0.3	-0.3*	0.1	-0.1	0.4	-0.3*	-0.3*
STD ERR OF DP		0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.2	0.5	0.2	0.2	0.5	0.1	0.2	0.2	0.7	0.1	0.1
STD ERR OF P	0.1	0.0	0.2	0.4	0.3	0.3	0.1	0.0	0.2	0.2	0.6	0.2	0.2	0.5	0.0	0.3	0.2	0.7	0.0	0.0

EXERCISE: RC02

Part C. Multiply 38 x 9

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 10* AGE: 9	TEXT: 342																			
DELTA-P	25.2	-9.2#	-3.3	1.5	8.9#	-0.6	0.6	-13.9#	2.8#	-6.1	-14.8#	4.4*	7.5#	-10.8#	-1.8	-2.0	-2.4	-0.7	12.7#	1.8
STD ERR OF DP		1.8	2.2	2.5	2.5	0.9	0.9	2.2	0.7	3.8	3.2	2.0	1.8	2.9	9.1	2.3	3.1	4.3	3.7	3.5
P-VALUE	25.2	17.1	21.9	26.8	34.1	24.7	25.8	11.4	28.0	19.1	10.5	29.6	32.7	14.4	23.5	23.3	22.9	24.5	37.9	27.0
STD ERR OF P	1.3	1.7	2.5	3.1	3.0	1.6	1.6	2.0	1.6	3.6	3.0	2.3	2.6	2.9	9.7	2.8	3.3	4.5	3.8	3.7
AGE: 13																				
DELTA-P	82.6	-4.2*	-2.9*	3.2*	3.1	-3.7#	3.4#	-13.5#	2.5#	-7.7	-10.1#	0.8	4.3#	-10.0#	2.6	-2.1	0.7	-1.5	3.6	5.6#
STD ERR OF DP		2.0	1.4	1.4	1.9	1.0	0.9	3.9	0.6	3.9	3.6	1.2	1.2	2.3	2.3	1.6	2.2	3.3	2.3	1.8
P-VALUE	82.6	78.4	79.7	85.7	85.7	78.9	86.0	69.1	85.1	74.9	72.5	83.3	86.8	72.5	85.2	80.5	83.2	81.1	86.2	88.2
STD ERR OF P	1.0	2.3	1.6	1.6	2.2	1.4	1.3	4.3	0.9	4.0	4.0	1.6	1.3	2.4	2.4	2.1	2.4	3.5	2.4	1.7
AGE: 17																				
DELTA-P	87.5	0.3	-2.9	1.8	0.7	0.5	-0.4	-13.4#	2.6#	-6.4*	-7.3#	1.5	3.2#	-11.6#	2.9	1.1	-1.0	0.1	2.4	1.4
STD ERR OF DP		1.7	1.7	1.3	1.3	0.8	0.7	2.3	0.5	3.0	2.6	1.2	0.7	3.1	2.6	1.1	2.1	2.3	2.1	2.8
P-VALUE	87.5	87.8	84.5	89.3	88.2	87.9	87.1	74.1	90.0	81.0	80.[illegible]	88.9	90.7	75.9	90.4	88.5	86.4	87.5	89.9	88.8
STD ERR OF P	0.9	1.9	2.1	1.4	1.4	1.1	1.1	2.4	0.9	3.3	2.[illegible]	1.3	1.0	3.3	2.8	1.3	2.4	2.3	2.1	3.0
AGE: Ad																				
DELTA-P	80.8	-0.7	-2.9	2.7	0.5	2.4*	-2.2*	-18.0#	2.9#	-1.1	-5.6	1.4	4.9#	-9.8*	1.7	-0.7	-4.3	-0.4	6.3*	6.5#
STD ERR OF DP		2.1	2.0	1.6	2.0	1.1	1.1	4.1	0.7	1.8	3.2	1.7	1.4	4.7	3.1	1.2	3.7	4.2	2.6	2.4
P-VALUE	80.8	80.1	77.9	83.4	81.3	83.1	78.6	62.8	83.6	79.7	75.1	82.2	85.6	71.0	82.4	80.1	76.5	80.3	87.1	87.3
STD ERR OF P	1.1	2.4	2.4	1.8	2.3	1.5	1.6	4.5	1.0	2.2	3.6	1.8	1.3	5.0	3.2	1.4	4.1	4.4	2.6	2.6
RESPONSE: 20 AGE: 9	TEXT: 272																			
DELTA-P	1.0	0.1	-0.4	0.5	-0.1	0.2	-0.2	-0.1	0.1	-1.0#	0.4	0.6	-0.4	0.9	0.4	-0.2	-0.1	-1.0#	1.3	-0.6
STD ERR OF DP		0.5	0.3	0.6	0.3	0.2	0.2	0.4	0.1	0.3	1.0	0.5	0.3	1.0	1.1	0.4	0.6	0.3	1.2	0.4
STD ERR OF P	0.3	0.5	0.3	0.8	0.2	0.3	0.4	0.5	0.3	0.0	1.1	0.6	0.3	1.0	1.1	0.4	0.6	0.0	1.4	0.4
AGE: 13																				
DELTA-P	0.2	0.1	0.1	0.0	-0.2*	-0.1	0.1	0.4	-0.1	0.1	0.3	0.1	-0.2*	-0.0	-0.2*	0.1	0.1	-0.2*	0.2	-0.2*
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.3	0.5	0.2	0.1	0.2	0.1	0.1	0.3	0.1	0.4	0.1
STD ERR OF P	0.1	0.3	0.2	0.2	0.0	0.1	0.2	0.5	0.1	0.4	0.5	0.2	0.0	0.2	0.0	0.2	0.3	0.0	0.4	0.0
AGE: 17																				
DELTA-P	0.2	-0.2	0.2	-0.2	0.1	-0.0	0.0	0.3	-0.1	0.3	0.3	-0.2	-0.2	0.6	-0.2	-0.2	0.5	-0.2	-0.2	-0.2
STD ERR OF DP		0.1	0.2	0.1	0.2	0.1	0.1	0.4	0.1	0.4	0.4	0.1	0.1	0.7	0.1	0.1	0.4	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.2	0.0	0.2	0.1	0.1	0.5	0.1	0.4	0.5	0.0	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.1	0.1	-0.1	0.0	0.1	-0.1	0.0	-0.1	0.0*	-0.1	0.2	0.0	0.0	-0.1	-0.1	0.2	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.1	0.2	0.1	0.1	0.0	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0
RESPONSE: 21 AGE: 9	TEXT: 2772																			
DELTA-P	0.4	0.3	-0.2	0.1	-0.1	-0.1	0.1	0.2	0.0	0.8	-0.4#	-0.1	0.1	-0.4#	0.1	-0.2	0.3	0.6	-0.1	-0.1
STD ERR OF DP		0.3	0.2	0.3	0.2	0.1	0.1	0.4	0.1	1.2	0.1	0.2	0.2	0.1	0.4	0.2	0.5	0.6	0.3	0.4
STD ERR OF P	0.1	0.4	0.2	0.3	0.2	0.2	0.2	0.5	0.2	1.2	0.0	0.2	0.3	0.0	0.4	0.2	0.6	0.7	0.3	0.4

AGE: 13

Response did not occur at this age.

AGE: 17

Response did not occur at this age.

EXERCISE: BC02

Part C. Multiply 38 x 9

RESPONSE: 21 AGE: Ad TEXT: 2772

Response did not occur at this age.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 22 AGE: 9	TEXT: 297																			
DELTA-P	0.7	-0.4	0.5	-0.0	-0.1	0.1	-0.1	0.1	-0.0	0.4	-0.7#	0.2	0.5	0.6	-0.1	-0.3	-0.7#	1.1	-0.2	0.4
STD ERR OF DP		0.3	0.4	0.4	0.3	0.2	0.2	0.4	0.1	1.1	0.2	0.4	0.4	0.7	0.5	0.3	0.2	1.1	0.4	0.6
STD ERR OF P	0.2	0.2	0.4	0.5	0.4	0.3	0.2	0.4	0.2	1.1	0.0	0.4	0.5	0.7	0.5	0.2	0.0	1.2	0.4	0.7
AGE: 13																				
DELTA-P	0.3	0.4	0.0	-0.3*	-0.1	0.1	-0.1	0.3	-0.0	-0.3*	0.2	0.4	-0.2	-0.1	0.1	-0.0	0.7	-0.1	-0.3*	-0.3*
STD ERR OF DP		0.3	0.2	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.3	0.3	0.1	0.2	0.3	0.2	0.6	0.2	0.1	0.1
STD ERR OF P	0.1	0.4	0.3	0.0	0.2	0.2	0.2	0.3	0.1	0.0	0.3	0.4	0.0	0.2	0.3	0.2	0.7	0.2	0.0	0.0
AGE: 17																				
DELTA-P	0.2	-0.1	0.3	-0.1	-0.2*	0.0	0.0	0.1	-0.1	0.1	-0.0	-0.1	-0.1	0.4	-0.0	0.1	-0.2*	-0.2*	-0.1	-0.2*
STD ERR OF DP		0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.5	0.2	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.1	0.3	0.1	0.0	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.5	0.2	0.2	0.0	0.0	0.1	0.0
AGE: Ad																				
DELTA-P	0.2	0.1	0.1	-0.2	0.0	0.1	-0.1	0.6	-0.1	0.1	0.2	-0.2	0.1	0.0	-0.2	-0.0	0.3	-0.2	0.3	-0.2
STD ERR OF DP		0.3	0.2	0.1	0.2	0.1	0.1	0.5	0.1	0.2	0.3	0.1	0.3	0.2	0.1	0.1	0.5	0.1	0.4	0.1
STD ERR OF P	0.1	0.3	0.3	0.0	0.3	0.2	0.1	0.6	0.1	0.3	0.4	0.0	0.3	0.2	0.0	0.2	0.5	0.0	0.5	0.0
RESPONSE: 23 AGE: 9	TEXT: Other Unacceptable; e.g., 972; 432																			
DELTA-P	36.6	3.7#	1.7	-3.1*	-1.8	1.3	-1.3	12.7#	-2.4#	-4.4	20.2#	0.7	-1.5	6.7*	2.0	1.5	-1.4	-5.3*	-3.1	1.2
STD ERR OF DP		1.4	2.0	1.5	1.7	0.9	0.9	2.5	0.6	4.2	4.0	2.2	2.0	3.2	4.5	1.7	2.8	2.5	2.0	3.3
STD ERR OF P	1.0	1.4	2.5	1.6	2.0	1.3	1.3	2.5	1.1	4.4	4.0	2.4	2.2	3.2	4.4	2.0	2.9	2.7	2.0	3.5
AGE: 13																				
DELTA-P	15.1	2.7	3.0*	-3.0*	-2.0	2.8#	-2.6#	8.7#	-1.9#	7.1*	9.5#	-1.1	-2.4#	8.7#	-2.9	2.2	-1.0	-0.0	-3.0	-4.3#
STD ERR OF DP		1.4	1.4	1.3	1.9	1.0	0.9	3.0	0.5	3.5	3.7	1.1	1.1	2.4	1.9	1.4	2.2	3.2	2.2	1.6
STD ERR OF P	0.9	1.4	1.6	1.5	2.3	1.3	1.3	3.3	0.9	3.6	4.0	1.5	1.3	2.6	2.0	1.7	2.4	3.4	2.4	1.6
AGE: 17																				
DELTA-P	10.8	-0.3	2.4	-1.4	-0.7	-0.7	0.6	9.3#	-1.8#	4.9	5.1*	-1.0	-2.3#	8.2#	-1.6	-0.7	-1.1	1.6	-1.9	-0.1
STD ERR OF DP		1.5	1.5	1.3	1.2	0.8	0.7	2.1	0.5	3.1	2.5	1.2	0.7	2.6	2.6	1.0	1.6	2.3	1.9	2.8
STD ERR OF P	0.8	1.7	1.9	1.4	1.4	1.0	1.1	2.3	0.8	3.4	2.7	1.3	1.0	2.8	2.8	1.2	1.8	2.3	1.9	3.0
AGE: Ad																				
DELTA-P	16.5	-0.1	2.0	-1.5	-0.2	-1.6	1.5	11.2#	-1.8#	-0.6	5.2	0.2	-3.6*	4.8	-0.7	1.4	0.6	2.0	-5.6*	-4.2
STD ERR OF DP		1.7	1.5	1.4	2.0	1.0	1.0	3.2	0.6	1.3	3.2	1.6	1.5	3.7	2.9	1.1	2.8	4.2	2.5	2.4
STD ERR OF P	1.0	1.9	1.7	1.5	2.5	1.3	1.5	3.6	0.9	1.4	3.7	1.8	1.4	3.9	3.0	1.2	3.1	4.4	2.5	2.6
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	28.4	0.9	3.3	1.1	-5.2	-2.1*	2.1*	-4.1	1.1	3.6	-1.3	-5.4#	-3.3	-3.3	-0.1	1.1	4.1	3.9	-7.9*	-1.0
STD ERR OF DP		2.4	2.8	2.4	2.8	0.9	0.9	3.5	0.7	4.9	4.5	1.9	1.7	3.5	6.7	2.2	3.7	5.1	3.2	3.7
STD ERR OF P	1.5	2.5	3.4	2.7	3.4	1.7	1.8	3.6	1.8	5.6	4.4	2.1	2.1	3.6	7.0	2.5	4.2	5.6	3.3	3.9
AGE: 13																				
DELTA-P	1.0	0.2	-0.3	0.5	-0.6	0.4*	-0.4*	1.0	-0.2	0.6	-0.6	-0.1	-0.5*	-0.4	-0.4	0.1	0.3	1.2	-0.3	-0.4
STD ERR OF DP		0.5	0.4	0.5	0.3	0.2	0.2	0.6	0.1	1.0	0.5	0.3	0.3	0.5	0.5	0.4	0.7	0.9	0.6	0.5
STD ERR OF P	0.3	0.5	0.4	0.7	0.2	0.4	0.2	0.7	0.3	1.1	0.4	0.4	0.2	0.4	0.4	0.5	0.7	1.0	0.7	0.5

EXERCISE: RC02

Part C. Multiply 38 x 9

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	1.0	0.3	-0.0	0.1	-0.3	0.1	-0.1	2.9#	-0.5#	1.1	2.2#	0.1	-0.8#	1.9#	-1.0#	-0.3	2.2#	-1.9#	-0.7#	-0.6
STD ERR OF DP		0.5	0.3	0.3	0.2	0.2	0.2	0.5	0.1	0.8	0.4	0.3	0.2	0.6	0.2	0.3	0.7	0.2	0.2	0.4
STD ERR OF P	0.2	0.6	0.3	0.3	0.1	0.3	0.2	0.5	0.2	0.9	0.4	0.4	0.2	0.7	0.0	0.4	0.8	0.0	0.2	0.4
AGE: Ad																				
DELTA-P	2.1	1.0	1.0	-1.1*	-0.6	-1.1*	1.0*	6.7#	-1.1#	1.9	-0.3	-1.4#	-1.4#	4.8	-0.4	-1.0	3.5	-1.7#	-0.7	-1.7#
STD ERR OF DP		0.9	0.8	0.5	0.7	0.5	0.5	2.4	0.3	1.0	0.8	0.4	0.5	2.5	0.8	0.5	2.4	0.6	0.8	0.6
STD ERR OF P	0.4	1.0	1.0	0.5	0.8	0.6	0.7	2.7	0.3	1.3	0.7	0.3	0.5	2.7	0.8	0.4	2.7	0.4	0.9	0.4

EXERCISE: RC02

Part D. Divide 125 by 5

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	11.2	2.5	-1.5	-0.5	-0.2	2.7#	-2.7#	6.3*	-2.2#	4.8	-1.5	-2.4	-4.2#	7.7	-0.6	1.5	-0.1	0.5	-4.0*	-3.5
STD ERR OF DP		1.7	2.2	2.5	1.8	0.7	0.7	2.6	0.6	3.8	3.2	1.4	1.2	4.7	2.9	2.1	2.8	2.6	1.9	2.0
STD ERR OF P	1.2	1.6	2.6	3.2	1.9	1.6	1.2	2.7	1.0	4.4	3.5	1.7	1.1	4.9	3.0	2.9	3.0	2.6	1.8	1.7
AGE: 13																				
DELTA-P	1.5	0.5	0.1	0.1	-0.7	-0.3	0.2	5.0#	-0.7#	0.6	2.1	-0.5	-1.1#	2.9*	-0.5	-0.6	1.0	0.8	-0.3	-1.0
STD ERR OF DP		0.6	0.5	0.5	0.4	0.3	0.3	1.6	0.2	1.1	1.8	0.3	0.3	1.4	0.6	0.4	1.1	1.0	0.6	0.5
STD ERR OF P	0.3	0.7	0.5	0.7	0.4	0.3	0.5	1.8	0.2	1.2	1.6	0.4	0.2	1.5	0.6	0.4	1.3	1.1	0.6	0.5
AGE: 17																				
DELTA-P	0.7	-0.1	0.1	-0.5	0.5	0.1	-0.1	2.3*	-0.5*	0.8	0.5	-0.4	-0.4	1.6	-0.6	-0.1	-0.3	0.8	0.1	-0.7#
STD ERR OF DP		0.3	0.5	0.3	0.5	0.2	0.2	1.1	0.2	1.0	1.0	0.3	0.3	1.0	0.3	0.3	0.3	1.2	0.7	0.2
STD ERR OF P	0.2	0.3	0.6	0.2	0.6	0.4	0.2	1.3	0.2	1.0	1.2	0.2	0.3	1.1	0.2	0.3	0.3	1.3	0.8	0.0
AGE: Ad																				
DELTA-P	0.2	-0.3	-0.1	0.3	-0.0	0.1	-0.1	-0.3	-0.0	0.1	0.4	-0.1	-0.3	0.3	0.3	0.0	0.2	-0.3	-0.3	-0.3
STD ERR OF DP		0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.5	0.2	0.1	0.5	0.5	0.2	0.4	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.2	0.4	0.2	0.2	0.1	0.0	0.2	0.3	0.6	0.2	0.0	0.5	0.5	0.3	0.4	0.0	0.0	0.0
RESPONSE: 10* AGE: 9	TEXT: 25																			
DELTA-P	15.2	-5.6#	-1.4	1.1	5.2#	0.5	-0.5	-9.3#	1.9#	-6.7#	5.4	1.0	5.9#	-7.4#	-2.8	1.0	0.0	-5.0#	1.5	6.1*
STD ERR OF DP		1.5	1.7	1.7	1.8	1.0	1.0	1.4	0.4	2.5	4.1	1.5	1.4	2.3	4.4	1.7	2.5	1.9	2.9	2.5
P-VALUE	15.2	9.6	13.9	16.3	20.4	15.7	14.7	5.9	17.1	8.5	20.6	16.2	21.1	7.8	12.5	16.3	15.2	10.2	16.7	21.4
STD ERR OF P	1.0	1.5	2.0	2.0	2.2	1.3	1.5	1.4	1.2	2.6	4.2	1.9	1.7	2.1	4.6	2.1	2.7	1.9	3.0	2.6
AGE: 13																				
DELTA-P	88.5	-3.2	-2.8	2.1	3.3*	-1.4	1.3	-16.9#	3.1#	-3.5	-6.9*	2.2*	3.5#	-14.2#	0.2	0.7	-2.4	-0.2	2.2	6.7#
STD ERR OF DP		1.9	1.9	1.5	1.4	0.7	0.7	3.5	0.6	3.8	2.8	1.0	0.8	3.3	2.2	1.4	2.9	2.1	2.4	1.5
P-VALUE	88.5	85.3	85.8	90.7	91.8	87.1	89.8	71.7	91.6	85.0	81.6	90.8	92.0	74.3	88.7	89.2	86.1	88.3	90.7	95.2
STD ERR OF P	1.0	2.2	2.2	1.8	1.3	1.3	1.1	3.9	0.9	4.0	3.3	1.1	1.0	3.3	2.2	1.9	3.2	2.0	2.4	1.2
AGE: 17																				
DELTA-P	93.2	-0.9	-1.5	0.3	1.8	-1.0	0.9	-12.9#	2.7#	-2.7	-6.1#	-1.1	3.8#	-13.3#	0.8	1.8*	-1.0	-2.5	2.9	4.2#
STD ERR OF DP		1.0	1.4	0.9	1.0	0.6	0.5	2.6	0.5	2.2	2.3	1.0	0.8	3.9	1.6	0.8	1.7	2.0	1.5	1.3
P-VALUE	93.2	92.2	91.7	93.5	95.0	92.2	94.0	80.3	95.8	90.5	87.1	92.1	97.0	79.9	94.0	94.9	92.2	90.7	96.1	97.3
STD ERR OF P	0.6	1.1	1.8	1.0	1.1	1.0	0.7	2.9	0.5	2.2	2.6	1.3	0.6	4.3	1.6	0.7	1.7	2.2	1.5	1.1
AGE: Ad																				
DELTA-P	92.8	-2.4	1.5	0.3	0.2	1.3	-1.2	-11.7#	1.8#	-4.5#	-2.3	3.0#	4.2#	-6.6*	-1.0	-0.5	-1.6	5.6#	-2.1	6.8#
STD ERR OF DP		1.4	1.1	1.3	1.4	0.7	0.6	3.6	0.5	1.5	1.9	0.9	0.9	3.2	2.4	0.9	1.9	1.1	3.6	0.9
P-VALUE	92.8	90.3	94.3	93.1	93.0	94.1	91.6	81.1	94.5	88.3	90.4	95.8	97.0	86.2	91.8	92.3	91.2	98.4	90.6	99.5
STD ERR OF P	0.7	1.6	1.1	1.6	1.6	1.1	0.9	3.7	0.8	1.7	2.2	0.8	1.1	3.3	2.4	1.2	1.9	0.9	4.0	0.5

EXERCISE: MC02

Part D. Divide 125 by 5

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: 9	TEXT: 21																			
DELTA-P	2.5	-0.9	-1.1*	0.8	1.0	-0.2	0.2	-0.8	0.3	-2.5#	-0.8	0.4	0.2	-0.8	0.4	-0.1	-0.4	0.5	1.1	-0.8
STD ERR OF DP		0.5	0.5	0.6	0.8	0.3	0.3	0.7	0.1	0.4	0.9	0.7	0.5	1.1	1.5	0.6	1.3	1.4	1.0	0.8
STD ERR OF P	0.4	0.5	0.4	0.7	1.0	0.5	0.5	0.7	0.4	0.0	0.9	0.8	0.6	1.2	1.5	0.6	1.3	1.6	1.1	0.9
AGE: 13																				
DELTA-P	0.7	0.1	0.6	-0.1	-0.6#	0.2	-0.2	0.3	-0.2*	1.1	0.1	0.0	-0.3	2.1	0.3	-0.3	0.3	-0.7#	0.1	-0.7#
STD ERR OF DP		0.4	0.4	0.3	0.2	0.2	0.2	0.4	0.1	1.0	0.5	0.3	0.2	1.2	0.6	0.2	0.6	0.2	0.6	0.2
STD ERR OF P	0.2	0.4	0.5	0.4	0.1	0.3	0.2	0.4	0.2	1.1	0.5	0.4	0.3	1.3	0.7	0.2	0.7	0.0	0.7	0.0
AGE: 17																				
DELTA-P	0.4	-0.0	0.2	-0.2	-0.0	-0.2	0.2	1.1	-0.2	-0.0	0.2	-0.1	-0.1	0.7	0.1	0.1	-0.1	0.1	-0.4#	-0.4#
STD ERR OF DP		0.2	0.3	0.2	0.2	0.1	0.1	0.7	0.1	0.3	0.4	0.2	0.2	1.0	0.4	0.2	0.2	0.5	0.1	0.1
STD ERR OF P	0.1	0.2	0.4	0.1	0.3	0.1	0.3	0.8	0.1	0.2	0.5	0.3	0.2	1.1	0.4	0.2	0.2	0.6	0.1	0.0
AGE: Ad																				
DELTA-P	0.4	0.6	[illegible]	-0.2	-0.3	-0.1	0.1	0.1	-0.0	0.4	0.3	-0.2	-0.4#	-0.4#	0.0	0.1	-0.0	0.2	0.2	-0.4#
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.3	0.3	0.2	0.1	0.1	0.4	0.2	0.4	0.5	0.5	0.1
STD ERR OF P	0.1	0.4	0.3	0.2	0.1	0.2	0.2	0.5	0.2	0.4	0.4	0.2	0.0	0.0	0.4	0.3	0.4	0.6	0.6	0.0
RESPONSE: 21 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	33.2	6.0#	-4.9*	-0.7	0.3	1.3	-1.3	9.8#	-1.1	3.0	0.3	5.7#	1.5	0.9	2.4	-0.1	-1.0	-2.3	1.2	0.4
STD ERR OF DP		1.8	2.1	2.0	1.6	1.0	1.0	3.4	0.7	4.9	4.3	1.9	1.4	5.6	4.1	2.1	3.9	3.3	3.2	4.0
STD ERR OF P	1.1	1.9	2.5	2.5	1.6	1.5	1.4	3.5	1.2	4.9	4.1	2.3	1.8	5.3	4.0	2.3	3.9	3.5	3.2	4.5
AGE: 13																				
DELTA-P	8.1	2.6	1.8	-2.2	-1.6	1.5*	-1.4*	10.0#	-1.7#	0.0	4.8*	-1.4	-1.2	5.9*	0.8	-0.1	1.3	0.8	-1.6	-4.1#
STD ERR OF DP		1.4	1.5	1.1	1.1	0.7	0.7	2.3	0.4	2.2	2.3	1.0	0.7	2.6	1.6	1.1	2.1	1.9	2.3	1.3
STD ERR OF P	0.7	1.5	1.9	1.4	1.1	1.2	0.8	2.5	0.8	2.3	2.5	1.1	0.9	2.6	1.6	1.5	2.2	1.9	2.5	1.2
AGE: 17																				
DELTA-P	4.8	1.0	1.2	0.2	-2.1#	1.4#	-1.2#	7.0#	-1.6#	0.7	2.3	1.8*	-2.6#	10.4#	0.3	-1.3	-0.5	2.2	-2.9#	-2.2
STD ERR OF DP		0.9	1.0	0.8	0.7	0.5	0.4	1.9	0.4	1.7	1.6	0.9	0.6	3.1	1.5	0.7	1.4	2.0	0.9	1.2
STD ERR OF P	0.5	1.0	1.2	0.9	0.8	0.8	0.5	2.1	0.4	1.8	1.7	1.1	0.5	3.3	1.6	0.6	1.5	2.1	0.8	1.1
AGE: Ad																				
DELTA-P	4.6	0.6	-0.7	-0.1	0.4	0.0	-0.0	6.1*	-0.8#	2.1	2.6	-1.7*	-2.5#	4.5	0.5	0.8	-0.2	-4.1#	1.0	-4.1#
STD ERR OF DP		1.3	1.0	0.9	1.1	0.6	0.6	2.7	0.3	1.3	1.7	0.8	0.8	2.3	2.2	0.8	1.5	0.8	2.6	0.8
STD ERR OF P	0.6	1.5	1.1	1.1	1.3	1.0	0.7	2.9	0.6	1.6	1.9	0.7	0.8	2.5	2.4	0.9	1.5	0.5	2.8	0.5
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	37.9	-2.1	8.9#	-0.7	-6.3	-4.2#	4.3#	-5.9*	1.2	1.4	-3.5	-4.7*	-3.4	-0.4	0.6	-2.4	1.6	6.3	0.2	-2.3
STD ERR OF DP		2.7	2.8	3.2	3.3	1.1	1.1	2.8	0.6	4.4	5.2	2.1	1.7	5.1	6.9	2.6	3.7	3.7	4.1	4.6
STD ERR OF P	1.7	2.7	3.0	3.9	4.0	2.0	2.1	2.8	2.0	5.2	5.0	2.7	2.4	5.0	7.2	3.4	3.9	3.9	4.1	5.0
AGE: 13																				
DELTA-P	1.2	-0.0	0.4	0.1	-0.4	-0.1	0.1	1.6*	-0.4#	1.8	-0.0	-0.3	-0.8#	3.4*	-0.8*	0.3	-0.3	-0.7	-0.4	-0.9*
STD ERR OF DP		0.3	0.5	0.5	0.4	0.2	0.2	0.7	0.1	1.3	0.7	0.3	0.3	1.4	0.4	0.4	0.5	0.4	0.6	0.4
STD ERR OF P	0.3	0.3	0.6	0.7	0.4	0.3	0.4	0.7	0.3	1.4	0.7	0.4	0.2	1.5	0.3	0.6	0.4	0.4	0.6	0.3
AGE: 17																				
DELTA-P	0.9	0.1	-0.1	0.1	-0.1	-0.3	0.2	2.5#	-0.4#	1.2	3.1#	-0.2	-0.8#	0.5	-0.7#	-0.4#	1.9#	-0.6*	0.3	-0.8#
STD ERR OF DP		0.2	0.3	0.4	0.2	0.2	0.1	0.4	0.1	0.8	0.6	0.3	0.2	0.9	0.2	0.2	0.6	0.3	0.5	0.2
STD ERR OF P	0.2	0.2	0.3	0.5	0.1	0.2	0.2	0.4	0.1	0.9	0.6	0.4	0.1	0.9	0.2	0.1	0.7	0.3	0.6	0.1

EXERCISE: RC02

Part D. Divide 125 by 5

RESPONSE: 39 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.0	1.6	-0.7	-0.3	-0.3	-1.3*	1.2*	5.7*	-0.9*	1.9*	-0.9	-1.1*	-1.1	2.2	0.2	-0.4	1.6	-1.5*	1.2	-2.0*
STD ERR OF DP		1.0	0.5	0.6	0.7	0.4	0.4	2.4	0.3	0.7	0.6	0.4	0.6	2.1	0.8	0.4	1.3	0.6	1.4	0.4
STD ERR OF P	0.4	1.2	0.5	0.8	0.8	0.3	0.7	2.6	0.3	1.0	0.6	0.4	0.7	2.3	0.8	0.5	1.4	0.5	1.5	0.0

RC03
OBJ IV

A rocket was directed at a target 525 miles south of its launching point. It landed 624 miles south of the launching point. By how many miles did it miss its target?

ANSWER ________________________

SCORING GUIDE
RC03
C10020-12

00 = No Response

10 = 99; 99 miles

11 = Correct process with no answer or wrong answer; e.g., 624 - 525 = 109; 525 - 624 = 101; 624 - 525

20 = 1149; any attempt to add

21 = 109 with no work shown

22 = 101 with no work shown

23 = Other Unacceptable

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

Report #: RC03

NAEP #: C10020-12

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		9	13
Age:			
Package-Exercise:		05-10	04-14
National P-value:			
	RC03	21.47	71.68
Timing: (in seconds)			
	Stimulus:	14	14
	Response:	30	31
RC03	Exercise total:	44	45

EXERCISE: RC03

A rocket was directed at a target 525 miles south of its launching point. It landed 624 miles south of the launching point. By how many miles did it miss its target?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.3	0.4	1.5	-0.6	-1.3*	0.4	-0.4	1.9*	-1.1*	2.5	-0.5	-1.2	-1.2#	2.6	5.9	-0.4	-1.0	-0.2	-2.3#	-1.7*
STD ERR OF DP		0.7	1.5	0.7	0.6	0.3	0.3	0.8	0.5	2.0	1.4	0.7	0.5	1.6	4.8	0.6	0.7	0.9	0.6	0.7
STD ERR OF P	0.6	0.6	2.0	0.6	0.4	0.8	0.5	0.8	0.3	2.0	1.3	0.5	0.4	1.7	5.3	0.4	0.6	0.8	0.0	0.5
AGE: 13																				
DELTA-P	0.6	0.0	0.5*	-0.3*	-0.1	-0.0	0.0	1.2*	-0.3#	-0.6#	0.9	-0.2	-0.2	0.6	0.9	-0.5#	-0.1	-0.6#	0.6	-0.6#
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.6	0.1	0.1	1.0	0.2	0.2	0.7	0.5	0.1	0.3	0.1	0.6	0.1
STD ERR OF P	0.1	0.3	0.3	0.2	0.3	0.2	0.2	0.7	0.1	0.0	1.0	0.2	0.2	0.7	0.5	0.1	0.4	0.0	0.7	0.0
RESPONSE: 10* AGE: 9 TEXT: 99; 99 miles (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	21.5	-4.1#	-1.4	4.7	4.8*	1.1	-1.1	-15.1#	4.0#	-10.2#	1.0	2.5	8.6#	-14.9#	-2.2	-1.2	2.2	-6.2#	9.0*	11.1#
STD ERR OF DP		2.3	1.9	2.7	2.2	0.8	0.8	2.0	0.6	3.8	7.7	1.7	1.4	2.3	5.7	2.0	2.9	2.3	4.2	3.4
P-VALUE	21.5	13.4	20.0	26.1	26.3	22.6	20.4	6.4	25.4	11.3	22.4	24.0	30.1	6.6	19.3	20.3	23.7	15.2	30.4	32.6
STD ERR OF P	1.4	2.6	1.9	3.4	2.5	1.8	1.3	1.8	1.6	3.8	8.2	2.4	2.1	2.0	6.1	2.5	3.0	2.3	4.4	3.6
AGE: 13																				
DELTA-P	71.7	-9.2#	-3.8	4.1	7.0#	-0.9	1.0	-25.5#	5.9#	-15.3#	-4.2	2.5	11.2#	-17.3#	-5.9	5.1#	-7.5	-0.6	3.9	14.0#
STD ERR OF DP		3.1	2.6	2.1	1.8	0.9	1.0	3.1	0.9	4.6	2.9	1.6	1.3	3.5	4.6	1.9	4.0	3.6	2.7	3.2
P-VALUE	71.7	62.5	67.9	75.8	78.6	70.8	72.6	46.2	77.5	56.4	67.5	74.1	82.9	54.4	65.8	76.8	64.2	71.0	75.6	85.6
STD ERR OF P	1.4	3.6	3.2	2.3	1.8	1.6	1.8	3.1	1.3	5.2	3.5	1.8	1.4	3.6	5.3	2.3	4.1	3.6	2.7	3.0
RESPONSE: 11 AGE: 9 TEXT: Correct process with no answer or wrong answer; e.g., 624 - 525 = 109; 525 - 624 = 101; 624 - 525																				
DELTA-P	9.6	-0.9	1.9	0.6	-1.7	0.9	-0.9	-6.2#	1.6#	-1.7	-1.1	2.1	1.0	-8.2#	-0.5	3.1*	-1.5	-2.6	1.8	0.3
STD ERR OF DP		1.5	4.5	1.5	1.3	0.6	0.6	1.2	0.4	2.8	2.6	1.5	0.8	1.1	2.6	1.3	1.7	1.5	2.7	2.1
STD ERR OF P	0.9	1.6	1.9	1.8	1.4	1.2	0.9	1.1	1.0	2.7	2.8	1.9	1.2	0.7	2.7	1.8	1.6	1.4	2.9	2.3
AGE: 13																				
DELTA-P	9.2	1.7	-0.7	-1.1	0.4	0.1	-0.1	0.4	-0.5	1.3	0.9	-0.6	-1.9*	-2.4	-1.6	0.3	2.1	5.2	-3.0*	-1.1
STD ERR OF DP		1.4	1.4	1.3	1.0	0.6	0.7	1.5	0.4	2.2	2.0	0.9	0.8	1.3	1.2	1.3	2.1	2.9	1.3	2.3
STD ERR OF P	0.7	1.5	1.7	1.5	1.0	0.9	1.0	1.5	0.7	2.2	2.2	1.1	0.9	1.4	1.4	1.4	2.1	3.3	1.1	2.4
RESPONSE: 20 AGE: 9 TEXT: 1149; any attempt to add																				
DELTA-P	7.9	1.1	-0.4	-0.7	0.1	-2.6#	2.6#	3.4*	-1.1#	2.2	1.6	-1.6	-1.5	5.5#	1.4	-0.5	-0.5	1.9	-1.4	-3.6#
STD ERR OF DP		1.8	1.2	1.3	1.2	0.7	0.7	1.4	0.4	2.2	2.7	1.1	1.0	1.9	3.5	0.9	1.6	1.7	1.5	1.2
STD ERR OF P	0.8	2.2	1.3	1.4	1.2	0.7	1.4	1.7	0.8	2.3	2.9	1.3	1.0	1.9	3.9	1.2	1.7	1.8	1.4	1.1
AGE: 13																				
DELTA-P	3.5	2.1	0.6	-1.0	-1.3	-0.5	0.5	7.8#	-1.5#	5.2#	-1.0	-0.6	-2.3#	4.3	3.6	-1.8#	2.0	-0.2	-1.5	-3.5#
STD ERR OF DP		1.3	1.3	0.7	0.8	0.5	0.5	2.2	0.5	1.9	1.0	0.5	0.5	2.2	2.3	0.6	1.4	1.1	1.0	0.6
STD ERR OF P	0.6	1.4	1.6	0.7	0.8	0.8	0.7	2.5	0.4	2.1	1.0	0.7	0.4	2.3	2.7	0.5	1.5	1.0	0.9	0.0
RESPONSE: 21 AGE: 9 TEXT: 109 with no work shown																				
DELTA-P	1.2	-0.5	-0.5	0.4	0.6	-0.3	0.3	-0.8	0.3#	-1.2#	-0.1	-0.2	0.7	-1.2#	-0.3	-0.8*	-0.9*	-0.1	2.5	1.6
STD ERR OF DP		0.4	0.5	0.5	0.6	0.2	0.2	0.4	0.1	0.3	0.9	0.5	0.4	0.3	0.7	0.3	0.4	0.6	1.3	1.1
STD ERR OF P	0.3	0.3	0.5	0.6	0.7	0.3	0.4	0.3	0.4	0.0	1.0	0.6	0.6	0.0	0.7	0.3	0.3	0.6	1.4	1.3
AGE: 13																				
DELTA-P	0.5	0.3	-0.3	-0.1	0.1	0.0	-0.0	0.6	-0.1	-0.3	0.6	0.1	-0.1	-0.2	0.4	-0.1	0.0	-0.5#	0.5	-0.2
STD ERR OF DP		0.3	0.2	0.2	0.3	0.1	0.1	0.6	0.1	0.2	0.8	0.2	0.2	0.3	0.5	0.2	0.3	0.1	0.6	0.3
STD ERR OF P	0.1	0.4	0.1	0.3	0.3	0.2	0.2	0.7	0.1	0.2	0.8	0.3	0.2	0.3	0.6	0.2	0.4	0.0	0.6	0.3
RESPONSE: 22 AGE: 9 TEXT: 101 with no work shown																				
DELTA-P	14.2	-0.1	-1.7	1.5	0.3	2.0*	-2.0*	0.1	0.8	-4.7	4.1	0.2	0.2	1.1	-5.9*	-1.5	4.4	0.9	-1.2	2.9
STD ERR OF DP		1.4	1.7	1.8	1.5	0.9	0.9	2.0	0.4	2.8	5.0	1.3	1.1	3.3	2.9	1.2	2.7	2.5	2.6	2.3
STD ERR OF P	0.9	1.5	2.0	2.1	1.7	1.4	1.2	2.1	1.1	2.8	5.1	1.7	1.6	3.5	3.1	1.4	2.9	2.7	2.8	2.5

EXERCISE: RC03

A rocket was directed at a target 525 miles south of its launching point. It landed 624 miles south of the launching point. By how many miles did it miss its target?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 22 AGE: 13 TEXT: 101 with no work shown																				
DELTA-P	5.3	1.1	1.3	-0.6	-1.6*	1.3#	-1.3#	3.2*	-0.6	1.7	0.8	-0.5	-2.3#	6.6#	1.2	-1.4*	1.3	-2.0	0.0	-2.9
STD ERR OF DP		1.0	1.1	0.7	0.7	0.4	0.4	1.4	0.3	2.0	1.5	0.9	0.7	1.7	1.7	0.7	1.0	1.3	1.5	1.7
STD ERR OF P	0.5	1.1	1.4	0.8	0.8	0.7	0.6	1.4	0,6	2.2	1.6	1.0	0.7	1.8	1.9	0.8	1.0	1.3	1.7	1.7
RESPONSE: 23 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	28.5	8.5#	0.1	-2.4	-6.2#	0.5	-0.5	12.0#	-2.8#	16.9#	-5.5	-1.2	-2.4	10.9#	5.4	1.7	-4.9*	3.1	-5.4	-9.3#
STD ERR OF DP		2.9	1.8	2.0	2.0	1.1	1.1	2.1	0.7	3.9	5.0	1.7	1.5	3.2	3.4	1.9	2.1	2.7	2.7	3.1
STD ERR OF P	1.3	3.5	1.9	2.2	2.3	1.5	1.8	2.4	1.6	4.4	5.0	2.2	2.0	3.3	3.6	2.7	2.2	2.4	2.8	3.2
AGE: 13																				
DELTA-P	7.5	3.3#	1.4	-0.5	-3.6#	0.5	-0.6	9.4#	-2.0#	5.8	1.4	-0.7	-3.5#	6.0#	1.5	-1.2	2.9	-1.4	-1.2	-4.5#
STD ERR OF DP		1.1	1.5	1.1	0.8	0.5	0.6	1.9	0.5	3.1	1.8	1.0	0.8	2.3	2.5	0.9	1.7	1.4	1.4	1.5
STD ERR OF P	0.7	1.2	1.8	1.3	0.8	0.8	0.9	1.8	0.7	3.3	2.0	1.2	0.7	2.4	2.8	1.0	1.7	1.5	1.5	1.5
RESPONSE: 19 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	14.8	-0.5	0.6	-3.5*	3.5	-2.0#	2.0#	4.7#	-1.6#	-3.9	0.5	-0.6	-5.5#	4.1	-3.9*	-0.6	2.1	3.1	-2.9	-1.4
STD ERR OF DP		1.6	1.6	1.4	2.4	0.8	0.7	1.7	0.5	2.8	3.4	1.6	1.3	2.5	1.9	1.4	2.1	3.4	2.3	2.4
STD ERR OF P	1.0	1.8	1.7	1.4	3.0	1.3	1.2	2.1	1.0	3.0	3.7	2.0	1.3	2.4	1.9	2.0	2.5	3.7	2.1	2.4
AGE: 13																				
DELTA-P	1.8	0.7	0.9	-0.4	-0.9#	-0.5	0.6	3.0#	-0.9#	2.1	0.6	0.0	-1.0#	2.4*	-0.0	-0.4	-0.6	0.0	0.6	-1.2*
STD ERR OF DP		0.6	0.6	0.4	0.4	0.3	0.3	1.0	0.2	1.5	0.7	0.5	0.3	1.1	0.8	0.4	0.6	1.0	0.7	0.6
STD ERR OF P	0.3	0.7	0.7	0.4	0.4	0.3	0.5	1.1	0.2	1.6	0.7	0.6	0.3	1.2	0.9	0.4	0.6	1.1	0.7	0.6

RC04
OBJ II

Do the following subtraction:

$$\begin{array}{r} 1{,}054 \\ -\ 865 \\ \hline \end{array}$$

ANSWER ______________________

SCORING GUIDE
RC04
C10021-1234

00 = No Response

10 = 189

20 = 299

21 = 199; 289

22 = Any attempt to add; e.g., 1919; 18119; 1819

23 = Other Unacceptable

24 = 211; -211; 1811; -1811; 11; -11; 811; -811

25 = 1189; 1299; 1199; 1289

39 = I Don't Know.

Report #: RC04

NAEP #: C10021-1234

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		9	13	17	Adult
Age:					
Package-Exercise:		02-06	02-31	08-09	06-17
National P-value:					
	RC04	27.17	80.02	88.84	89.71
Timing: (in seconds)					
	Stimulus:	2	1	1	2
	Response:	40	40	41	*
RC04	Exercise total:	42	41	42	*

*Time not limited by paced tape.

EXERCISE: RC04

Do the following subtraction: 1,054 - 865 =

	NATION	REGION: SOUTH EAST	REGION: WEST	REGION: CENTRAL	REGION: NORTH EAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	SIZE-AND-TYPE OF COMMUNITY: EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY: SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY: MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY: MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY: URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY: HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	4.5	2.0	0.1	-0.4	-1.5	1.0*	-1.0*	3.7*	-0.9#	2.5	-2.7*	-1.0	-0.8	4.0	-1.9	0.1	0.5	-1.0	1.0	-2.9#
STD ERR OF DP		1.3	1.0	0.9	0.9	0.5	0.4	1.5	0.3	2.4	1.1	0.9	0.6	2.0	1.0	0.8	1.6	1.7	1.5	0.9
STD ERR OF P	0.6	1.6	1.1	1.0	0.9	0.9	0.6	1.8	0.6	2.6	1.0	1.0	0.8	2.1	1.0	1.1	1.7	1.7	1.7	0.8
AGE: 13																				
DELTA-P	1.4	-1.3*	3.2	-0.7	-1.2	0.5	-0.4	0.5	-0.1	0.3	0.1	-0.2	-0.4	1.0	0.2	-1.4*	-1.4*	-1.1	5.4	-1.4*
STD ERR OF DP		0.7	2.0	0.8	0.7	0.4	0.4	1.3	0.3	0.6	0.8	0.3	0.7	1.8	1.6	0.7	0.7	0.7	3.5	0.7
STD ERR OF P	0.7	0.1	2.6	0.6	0.2	0.9	0.6	1.3	0.8	1.0	1.4	0.8	0.4	1.9	1.7	0.1	0.0	0.4	4.1	0.0
AGE: 17																				
DELTA-P	0.3	-0.1	-0.3#	0.1	0.2	0.1	-0.1	-0.2	0.1	-0.3#	-0.0	-0.3#	-0.2	0.2	-0.3#	0.1	-0.0	-0.3#	-0.3#	0.2
STD ERR OF DP		0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.3	0.1	0.1	0.4	0.1	0.2	0.3	0.1	0.1	0.4
STD ERR OF P	0.1	0.2	0.0	0.3	0.3	0.2	0.1	0.1	0.1	0.0	0.3	0.0	0.1	0.4	0.0	0.3	0.3	0.0	0.0	0.4
AGE: Ad																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	0.1	-0.0	0.4	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.4	-0.0
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
STD ERR OF P	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
RESPONSE: 10* AGE: 9	TEXT: 189																			
DELTA-P	27.2	-9.7#	-0.1	2.2	6.7*	-1.3	1.3	-13.7#	2.6#	-8.0*	-4.2	-0.7	9.4#	-12.4#	-2.7	1.2	-3.2	-1.3	1.3	11.6*
STD ERR OF DP		1.9	2.8	2.4	3.0	1.1	1.0	2.4	0.6	3.6	3.8	1.7	1.9	2.4	3.4	2.6	3.0	3.8	3.4	5.7
P-VALUE	27.2	17.4	27.1	29.3	33.8	25.8	28.5	13.4	29.8	19.1	23.0	26.5	36.6	14.8	24.5	28.4	24.0	25.9	28.4	38.8
STD ERR OF P	1.5	1.6	3.1	2.8	3.8	1.5	2.1	2.1	1.8	3.6	3.8	2.2	2.6	1.9	3.7	3.2	3.0	3.7	3.6	6.1
AGE: 13																				
DELTA-P	80.0	-4.7*	-1.4	2.0	3.4	-2.0	1.9	-21.3#	4.2#	-10.7*	-9.0#	2.9*	6.6#	-15.7#	-6.0	1.4	1.6	1.5	-0.6	7.9#
STD ERR OF DP		2.3	2.1	1.5	1.9	1.0	1.0	2.7	0.7	4.4	3.0	1.4	1.2	3.7	3.7	1.5	2.8	3.0	3.3	2.8
P-VALUE	80.0	75.4	78.7	82.0	83.4	78.1	82.0	58.7	84.2	69.3	71.0	82.9	86.6	64.4	74.0	81.4	81.7	81.5	79.4	87.9
STD ERR OF P	1.1	2.7	2.5	1.6	2.1	1.6	1.4	2.9	1.1	4.9	3.4	1.6	1.0	3.9	4.0	1.8	2.9	3.1	3.6	2.9
AGE: 17																				
DELTA-P	88.8	-2.8	-1.2	1.9	1.5	-1.8*	1.7*	-16.2*	3.0#	-9.7#	-9.8#	0.9	5.2#	-12.5#	-1.2	1.9*	-3.8	4.5	5.5#	2.1
STD ERR OF DP		2.8	1.5	1.3	1.3	0.7	0.7	2.7	0.6	2.4	2.0	1.0	0.8	4.6	3.0	1.0	2.9	2.5	1.9	1.8
P-VALUE	88.8	86.1	87.7	90.7	90.3	87.0	90.5	72.7	91.8	79.1	79.1	89.8	94.0	76.3	87.7	90.8	85.1	93.4	94.4	90.9
STD ERR OF P	1.0	1.5	1.6	1.3	1.3	1.5	1.0	3.2	0.8	2.9	2.4	1.5	0.8	4.8	3.2	1.2	3.4	2.5	1.9	1.6
AGE: Ad																				
DELTA-P	89.7	-3.6	0.8	2.1*	-0.2	0.3	-0.3	-17.6#	2.9#	-6.4#	0.3	1.5	4.7#	-8.2#	-4.7	1.9	-1.0	-0.1	0.9	3.1
STD ERR OF DP		2.2	1.4	1.0	1.2	0.9	0.9	2.8	0.5	1.9	1.9	1.3	1.3	3.1	3.8	1.0	2.1	2.5	1.6	2.3
P-VALUE	89.7	86.2	90.5	91.8	89.5	90.0	89.4	72.1	92.7	83.4	90.0	91.2	94.5	81.5	85.0	91.6	88.7	89.6	90.6	92.8
STD ERR OF P	0.8	2.6	1.7	0.9	1.3	1.4	1.0	3.1	0.7	2.4	1.9	1.4	1.2	3.3	4.2	1.1	2.2	2.7	1.6	2.4
RESPONSE: 20 AGE: 9	TEXT: 299																			
DELTA-P	1.0	-0.4	0.6	0.2	-0.4	-0.3	0.3	-0.6	0.2*	-1.0#	-0.2	0.5	0.3	-0.7*	0.6	-0.0	0.8	0.1	-0.1	-0.4
STD ERR OF DP		0.3	0.6	0.5	0.3	0.3	0.3	0.4	0.1	0.3	0.6	0.3	0.4	0.4	0.9	0.8	0.6	0.7	0.7	0.5
STD ERR OF P	0.3	0.2	0.8	0.7	0.3	0.2	0.5	0.3	0.4	0.0	0.6	0.5	0.6	0.3	1.0	0.4	0.7	0.8	0.8	0.5
AGE: 13																				
DELTA-P	0.5	0.7#	-0.4*	-0.1	-0.2	-0.1	0.1	0.5	-0.1	0.1	0.6#	-0.3	-0.1	0.5	0.8	-0.0	-0.5#	0.1	-0.5#	0.0
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.5	0.3	0.2	0.2	0.6	0.4	0.2	0.1	0.5	0.1	0.5
STD ERR OF P	0.1	0.4	0.1	0.2	0.3	0.1	0.2	0.4	0.2	0.6	0.3	0.1	0.2	0.6	0.5	0.2	0.0	0.5	0.0	0.5
AGE: 17																				
DELTA-P	0.3	0.0	0.2	-0.2	-0.0	0.1	-0.1	0.6	-0.1	-0.3#	-0.1	0.0	0.0	0.2	-0.3#	0.2	0.0	0.0	-0.3#	-0.3#
STD ERR OF DP		0.2	0.2	0.1	0.2	0.1	0.1	0.4	0.1	0.1	0.2	0.1	0.1	0.4	0.1	0.2	0.2	0.3	0.1	0.1
STD ERR OF P	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.4	0.1	0.0	0.2	0.2	0.2	0.5	0.0	0.2	0.3	0.3	0.0	0.0

EXERCISE: RC04

Do the following subtraction: 1,054 - 865 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad	TEXT: 299																			
DELTA-P	0.0	-0.0	-0.0	-0.0	0.1	-0.0	0.0	-0.0	0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 21 AGE: 9	TEXT: 199; 289																			
DELTA-P	5.5	-0.8	-0.5	0.6	0.6	-0.1	0.1	-2.8**	0.8**	-4.8**	1.4	0.7	1.3	-4.2**	-3.1**	1.2	0.7	3.1	0.6	0.3
STD ERR OF DP		0.7	0.7	0.7	1.1	0.5	0.5	0.8	0.2	0.6	3.1	1.0	0.9	0.9	1.1	0.7	1.7	3.0	1.7	1.4
STD ERR OF P	0.5	0.6	0.8	0.7	1.4	0.7	0.7	0.7	0.6	0.5	3.1	1.3	1.0	0.7	1.0	0.6	1.7	3.0	2.0	1.6
AGE: 13																				
DELTA-P	3.8	1.4	-0.9	-0.3	-0.1	-0.4	0.4	1.5	-0.2	-0.1	3.9	-0.6	-0.7	1.2	-1.3	0.6	0.5	-0.6	-0.5	-0.6
STD ERR OF DP		1.2	0.7	0.6	0.7	0.4	0.4	1.0	0.2	1.5	1.9	0.6	0.5	1.6	0.9	0.8	1.3	1.1	1.0	0.9
STD ERR OF P	0.4	1.4	0.7	0.6	0.8	0.5	0.7	1.1	0.5	1.5	2.1	0.7	0.4	1.6	0.9	1.1	1.4	1.0	1.1	0.9
AGE: 17																				
DELTA-P	2.9	-0.5	0.5	0.5	-0.6	0.7	-0.6	1.3	-0.2	2.5	0.5	0.1	-0.6	0.7	-0.6	0.2	0.4	-1.9**	-0.5	0.8
STD ERR OF DP		0.7	0.6	0.6	0.5	0.4	0.4	0.9	0.2	1.3	1.0	0.6	0.4	1.0	1.0	0.5	0.8	0.6	1.0	1.2
STD ERR OF P	0.3	0.8	0.6	0.7	0.5	0.6	0.4	1.0	0.4	1.4	1.0	0.8	0.4	1.1	1.0	0.7	0.8	0.6	1.1	1.3
AGE: Ad																				
DELTA-P	2.9	0.5	1.0	-0.1	-1.3*	-0.6	0.6	1.8	-0.5	0.9	0.8	-0.2	-0.9	0.4	1.1	-0.5	-0.1	0.4	0.0	0.4
STD ERR OF DP		0.9	1.0	0.6	0.6	0.5	0.4	1.9	0.3	1.0	1.3	0.9	0.8	1.5	1.7	0.6	1.3	1.7	0.9	1.9
STD ERR OF P	0.4	1.0	1.3	0.6	0.6	0.6	0.6	2.0	0.5	1.0	1.3	1.1	0.8	1.5	1.8	0.5	1.4	1.8	0.9	2.1
RESPONSE: 22 AGE: 9	TEXT: Any attempt to add; e.g., 1919; 18119; 1819																			
DELTA-P	1.7	-0.1	1.0	0.1	-0.9*	0.4	-0.4	0.5	-0.1	-0.4	0.9	-0.6	-0.2	0.1	0.1	-0.3	1.0	1.9	0.0	-1.4**
STD ERR OF DP		0.5	0.6	0.5	0.4	0.2	0.2	0.7	0.1	0.8	1.1	0.4	0.4	0.7	0.8	0.4	0.9	1.4	0.7	0.4
STD ERR OF P	0.3	0.6	0.7	0.6	0.4	0.4	0.3	0.8	0.3	0.9	1.2	0.4	0.5	0.7	0.9	0.5	1.0	1.5	0.8	0.3
AGE: 13																				
DELTA-P	0.2	0.2	-0.2*	-0.1	0.2	0.1	-0.1	0.9*	-0.1*	-0.2*	0.0	0.2	-0.1	1.0	-0.0	-0.1	0.0	-0.2*	0.1	-0.2*
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.4	0.1	0.1	0.2	0.2	0.1	0.6	0.2	0.1	0.2	0.1	0.3	0.1
STD ERR OF P	0.1	0.2	0.0	0.1	0.3	0.2	0.1	0.4	0.1	0.0	0.2	0.2	0.1	0.7	0.2	0.1	0.2	0.0	0.3	0.0
AGE: 17																				
DELTA-P	0.0	0.0	0.1	-0.0	-0.0	-0.0	0.0	0.1	-0.0	0.3	0.1	-0.0	-0.0	0.1	0.2	-0.0	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.1	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.4	0.1	0.0	0.0	[illegible]	0.3	0.0	0.0	0.0	0.0	0.0
AGE: Ad																				
	Response did not occur at this age.																			
RESPONSE: 23 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	35.5	4.9	-3.8	-0.5	-0.8	0.5	-0.5	7.9**	-1.8**	8.1*	[illegible]	1.7	-3.0	4.1	2.0	-1.2	0.8	-3.1	2.6	-4.0
STD ERR OF DP		2.6	2.5	2.1	2.6	1.0	0.9	2.6	0.6	3.8	4.0	2.0	1.8	3.1	3.7	1.5	2.3	5.4	4.3	3.6
STD ERR OF P	1.4	3.0	2.8	2.2	3.2	1.6	1.8	2.7	1.5	4.1	4.2	2.2	2.4	2.9	4.0	1.7	2.3	5.6	5.0	4.1
AGE: 13																				
DELTA-P	10.2	1.6	-0.3	0.9	-2.3	1.4	-1.4	14.1**	-2.8**	6.1	1.9	-1.4	-4.1**	10.1**	4.8	-0.7	0.7	-0.0	-2.8	-5.0**
STD ERR OF DP		1.6	1.2	1.0	1.2	0.8	0.8	2.1	0.4	3.1	2.6	1.1	0.7	1.6	2.8	0.9	1.9	1.8	1.5	1.4
STD ERR OF P	0.7	1.9	1.3	1.1	1.3	1.2	0.9	2.2	0.7	3.4	2.7	1.1	0.8	1.7	3.0	1.1	2.0	1.9	1.6	1.4

EXERCISE: RC04

Do the following subtraction: 1,054 - 865 =

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 23 AGE: 17	TEXT: Other Unacceptable																			
DELTA-P	6.2	2.0	1.0	-2.2*	-0.2	1.0	-0.9	8.2*	-1.8*	7.9*	7.7*	-1.3	-3.2*	5.3	3.1	-1.7*	3.2	-2.2	-3.5*	-1.3
STD ERR OF DP		1.9	1.0	0.9	1.0	0.6	0.6	2.4	0.4	1.8	1.5	0.8	0.6	3.2	2.9	0.6	2.1	1.5	1.0	1.1
STD ERR OF P	0.7	2.4	1.0	0.8	1.0	1.1	0.7	2.7	0.6	2.2	1.7	1.1	0.6	3.3	3.2	0.7	2.4	1.4	0.9	1.0
AGE: Ad																				
DELTA-P	5.3	1.7	-1.8*	-1.5*	2.1*	-0.1	0.1	12.1*	-1.6*	2.4*	-0.4	-0.3	-2.0*	7.3*	1.0	-0.6	-1.2	-0.5	-0.5	-2.2
STD ERR OF DP		1.1	0.7	0.6	1.0	0.7	0.6	2.2	0.3	0.9	1.3	0.9	0.8	2.4	1.4	0.7	1.8	1.9	1.3	1.1
STD ERR OF P	0.5	1.3	0.8	0.4	1.3	0.9	0.8	2.4	0.4	1.2	1.3	1.1	0.8	2.6	1.5	0.7	1.9	2.1	1.3	1.2
RESPONSE: 24 AGE: 9	TEXT: 211; -211; 1811; -1811; 11; -11; 811; -811																			
DELTA-P	12.3	2.8	0.0	1.1	-3.6*	1.1	-1.0	5.3*	-0.8	8.9*	6.9	-1.3	-3.8*	8.0*	2.8	0.2	-1.3	0.8	-3.2	-5.1*
STD ERR OF DP		1.5	1.0	0.6	1.0	0.7	0.7	1.9	0.4	2.8	3.8	1.3	1.1	2.5	2.0	1.2	2.0	2.3	1.7	1.5
STD ERR OF P	0.8	1.9	0.9	1.0	0.9	1.1	1.1	2.0	0.9	2.9	3.9	1.5	1.1	2.7	2.1	1.7	2.0	2.3	1.7	1.4
AGE: 13																				
DELTA-P	1.2	1.6*	0.1	-1.0*	-0.4	0.3	-0.3	1.5	-0.4*	3.2*	2.7	-0.8*	-0.7*	0.4	0.6	0.3	-0.5	-0.7	0.1	-0.5
STD ERR OF DP		0.6	0.5	0.3	0.4	0.3	0.3	0.8	0.2	1.5	1.5	0.4	0.2	0.6	1.0	0.4	0.6	0.4	0.6	0.7
STD ERR OF P	0.2	0.7	0.5	0.1	0.5	0.4	0.3	0.9	0.3	1.6	1.5	0.3	0.2	0.6	1.1	0.5	0.5	0.4	0.7	0.7
AGE: 17																				
DELTA-P	0.3	-0.0	0.0	0.3	-0.3	0.1	-0.1	2.0	-0.3	-0.2	-0.2	0.6	-0.3	2.3	-0.3	-0.3	0.0	-0.3	-0.2	-0.3
STD ERR OF DP		0.3	0.3	0.4	0.2	0.2	0.2	1.2	0.2	0.2	0.2	0.4	0.2	1.7	0.2	0.2	0.3	0.2	0.2	0.2
STD ERR OF P	0.2	0.2	0.3	0.6	0.0	0.4	0.1	1.4	0.0	0.2	0.1	0.6	0.0	1.9	0.0	0.0	0.3	0.1	0.2	0.0
AGE: Ad																				
DELTA-P	0.1	0.3	-0.1	-0.1	0.0	-0.0	0.0	0.8	-0.1	0.3	-0.1	-0.0	-0.1	0.3	1.0	-0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.3	0.1	0.1	0.1	0.1	0.1	0.6	0.1	0.2	0.1	0.1	0.1	0.4	0.7	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.0	0.0	0.2	0.1	0.1	0.7	0.0	0.3	0.0	0.1	0.0	0.5	0.8	0.0	0.0	0.0	0.0	0.0
RESPONSE: 25 AGE: 9	TEXT: 1189; 1299; 1199; 1289																			
DELTA-P	3.2	0.0	-0.6	-0.5	1.0	-1.1*	1.1*	0.3	-0.2	-2.6*	0.2	1.2	0.1	-1.4	0.6	-1.4*	0.2	1.3	0.3	3.0
STD ERR OF DP		0.7	0.7	0.7	1.0	0.4	0.4	1.2	0.3	0.6	1.8	0.7	0.7	1.1	1.3	0.5	1.2	2.2	0.9	1.6
STD ERR OF P	0.5	0.8	0.6	0.7	1.3	0.4	0.7	1.2	0.5	0.8	1.8	0.9	0.8	1.2	1.4	0.5	1.3	2.4	0.9	1.8
AGE: 13																				
DELTA-P	2.2	0.6	-0.1	-0.7	0.3	-0.2	0.2	1.1	-0.3	1.2	-0.3	0.3	-0.6	-0.1	0.8	-0.1	-0.7	1.3	-0.7	-0.1
STD ERR OF DP		0.5	0.6	0.5	0.6	0.3	0.3	0.9	0.2	1.6	0.9	0.6	0.4	1.2	0.6	0.4	0.6	1.2	0.6	1.0
STD ERR OF P	0.3	0.5	0.7	0.5	0.7	0.4	0.5	1.0	0.3	1.7	1.0	0.7	0.4	1.3	0.5	0.5	0.5	1.4	0.6	1.0
AGE: 17																				
DELTA-P	0.5	0.1	0.2	-0.4	0.1	-0.1	0.1	1.4	-0.2	0.1	0.6	-0.2	-0.3	1.5	-0.3	-0.3	-0.2	0.8	-0.1	-0.5*
STD ERR OF DP		0.3	0.3	0.2	0.3	0.2	0.1	0.7	0.1	0.6	0.7	0.2	0.2	1.1	0.3	0.2	0.2	0.9	0.4	0.2
STD ERR OF P	0.2	0.4	0.4	0.2	0.4	0.2	0.2	0.8	0.1	0.6	0.7	0.2	0.1	1.2	0.2	0.2	0.2	1.0	0.4	0.0
AGE: Ad																				
DELTA-P	0.4	-0.1	-0.3	0.3	0.0	0.0	-0.0	1.4	-0.2	0.4	-0.1	-0.0	-0.4*	0.4	-0.2	-0.1	0.4	0.5	-0.1	-0.4*
STD ERR OF DP		0.2	0.2	0.3	0.2	0.2	0.2	0.9	0.1	0.3	0.3	0.2	0.2	0.6	0.3	0.2	0.5	0.9	0.3	0.2
STD ERR OF P	0.2	0.2	0.1	0.4	0.3	0.2	0.2	1.0	0.1	0.4	[illegible]	0.3	0.0	0.6	0.3	0.2	0.6	1.0	0.4	0.0
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	9.1	1.3	3.1	-2.8*	-1.1	-0.1	0.1	-0.5	0.1	-2.7	-0.5	-0.5	-3.4*	2.5	1.7	0.3	0.6	-1.9	-2.5	-1.1
STD ERR OF DP		1.9	2.5	1.3	1.5	0.6	0.5	1.6	0.4	2.0	3.5	1.4	1.0	2.3	3.1	1.3	2.3	2.4	1.5	2.1
STD ERR OF P	1.0	2.2	3.1	1.0	1.6	1.1	1.3	1.6	1.2	2.5	3.8	1.2	0.9	2.3	3.7	1.6	2.9	2.3	1.6	2.3

```
                                    NATION |              REGION               |      SEX       |     RACE      |      PARENTAL EDUCATION      |            SIZE-AND-TYPE OF COMMUNITY
                                           | SOUTH                     NORTH   |                |               |         SOME   GRAD   POST  |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                                    _______|__EAST__ WEST CENTRAL  EAST__|__MALE__FEMALE_|_BLACK__WHITE_|_NO HS___HS_____HS_____HS___|_METRO__RURAL__PLACES__CITY_BIG CTY_FRINGE_METRO_

EXERCISE: BC04

Do the following subtraction:  1,054 - 865 =


RESPONSE:  39    AGE: 13        TEXT:  I Don't Know.

    DELTA-P                          0.5      -0.1   -0.1    0.1    0.1      0.3   -0.3      1.3   -0.2     0.2    0.1   -0.2   -0.0     1.7    0.2   -0.1    0.2   -0.4*  -0.5#  -0.1
    STD ERR OF DP                              0.3    0.3    0.3    0.4      0.2    0.2      0.9    0.2     0.5    0.5    0.2    0.2     1.0    0.5    0.2    0.5    0.2    0.2    0.4
    STD ERR OF P                     0.2       0.2    0.2    0.3    0.5      0.3    0.1      1.1    0.1     0.7    0.5    0.2    0.2     1.9    0.5    0.2    0.5    0.1    0.0    0.4

                  AGE: 17

    DELTA-P                          0.6       1.2*  -0.4#   0.0   -0.6#     0.1   -0.1      2.8#  -0.4#   -0.3    1.3#   0.3   -0.6#    2.2#  -0.4   -0.1    0.5*  -0.6#  -0.6#  -0.6#
    STD ERR OF DP                              0.5    0.2    0.1    0.1      0.1    0.1      0.4    0.1     0.3    0.2    0.3    0.1     0.5    0.2    0.2    0.2    0.1    0.1    0.1
    STD ERR OF P                     0.1       0.6    0.1    0.1    0.0      0.3    0.1      0.4    0.2     0.3    0.2    0.4    0.1     0.5    0.2    0.4    0.2    0.0    0.0    0.0

                  AGE: Ad

    DELTA-P                          1.4       1.2    0.3   -0.5   -0.6      0.4   -0.3      1.1   -0.5*    2.4*  -0.4   -1.0*  -1.2#   -0.1    1.8   -0.5    2.1   -0.1   -0.5   -0.7
    STD ERR OF DP                              1.3    0.8    0.6    0.5      0.4    0.4      1.0    0.2     1.1    0.7    0.4    0.5     1.0    2.2    0.3    1.9    1.0    0.6    0.6
    STD ERR OF P                     0.4       1.6    0.9    0.6    0.4      0.8    0.3      1.0    0.4     1.5    0.7    0.3    0.2     1.1    2.5    0.4    2.1    0.9    0.6    0.5
```

RC05
OBJ V

Dorothy washes windows at the rate of five minutes per window. To figure out how many minutes it will take her to wash ten windows, she could

○ add 5 and 10.
○ divide 10 by 5.
● multiply 5 by 10.
○ subtract 5 from 10.

○ I don't know.

Report #: RC05

NAEP #: C10029-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		9
Package-Exercise:		06-07
National P-value:		
	RC05	50.41

Timing: (in seconds)

	Stimulus:	19
	Response:	21
	I don't know:	5
	Pause:	6
RC05	Exercise total:	51

EXERCISE: RC05

Dorothy washes windows at the rate of five minutes per window. To figure out how many minutes it will take her to wash ten windows, she could

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.1	-0.1	0.1	-0.1	0.1	0.1	-0.1	0.7	-0.1	0.2	2.2	-0.1	-0.1	0.4	-0.1	-0.1	-0.1	-0.1	-0.1	0.4
STD ERR OF DP		0.1	0.2	0.1	0.2	0.1	0.1	0.4	0.1	0.3	1.6	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.4
STD ERR OF P	0.1	0.1	0.2	0.0	0.2	0.2	0.0	0.5	0.0	0.3	1.7	0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.0	0.5
RESPONSE: 01 AGE: 9 TEXT: add 5 and 10.																				
DELTA-P	21.9	2.8	1.0	-1.2	-2.1	1.1	-1.1	9.7*	-2.2*	2.1	1.5	-2.9	-1.9	8.4*	-0.5	0.5	-0.0	-1.1	-2.5	-3.1
STD ERR OF DP		3.0	1.9	1.9	1.6	0.9	0.9	3.2	0.7	3.9	3.6	1.7	1.3	4.0	3.8	2.1	3.0	2.2	2.7	4.3
STD ERR OF P	1.3	3.9	1.8	2.1	1.5	1.5	1.6	3.8	1.2	4.4	4.2	2.3	1.6	4.2	3.9	2.7	3.3	2.2	2.7	4.6
RESPONSE: 02 AGE: 9 TEXT: divide 10 by 5.																				
DELTA-P	12.6	1.8	0.3	-1.4	-0.4	0.0	-0.0	2.7	-0.3	7.3	1.3	0.6	-1.5	1.7	1.0	0.9	0.7	-1.9	1.3	-4.3
STD ERR OF DP		1.3	1.2	1.2	1.3	0.8	0.9	1.9	0.4	4.1	3.2	1.7	1.1	2.7	1.8	1.0	1.7	1.9	1.6	2.7
STD ERR OF P	0.7	1.5	1.2	1.5	1.5	1.0	1.2	2.0	0.8	4.3	3.1	2.0	1.1	2.8	2.0	1.4	1.7	1.8	1.7	2.7
RESPONSE: 03* AGE: 9 TEXT: multiply 5 by 10.																				
DELTA-P	50.4	-7.1*	-1.9	2.6	5.2*	0.8	-0.8	-21.0*	4.7*	-14.4*	-4.4	4.9	9.5*	-19.2*	-5.4	-0.3	3.2	2.3	1.7	10.6*
STD ERR OF DP		3.3	2.2	2.3	2.3	1.2	1.2	2.9	0.8	3.9	5.3	2.5	1.7	4.5	6.3	2.0	3.4	3.0	2.7	3.8
P-VALUE	50.4	43.3	48.5	53.0	55.6	51.2	49.6	29.4	55.1	36.0	46.0	55.3	59.9	31.2	45.0	50.1	53.6	52.7	52.1	61.0
STD ERR OF P	1.5	4.2	2.0	2.5	2.7	1.8	2.0	3.3	1.5	3.8	5.6	3.1	2.4	4.6	6.8	2.5	3.7	3.1	2.6	4.0
RESPONSE: 04 AGE: 9 TEXT: subtract 5 from 10.																				
DELTA-P	5.1	1.6	0.2	-0.4	-1.2	-0.5	0.5	4.1*	-1.1*	5.0*	1.7	-1.6*	-0.0	4.2	4.1*	0.2	-0.8	-0.8	-0.8	-3.9*
STD ERR OF DP		0.9	1.3	0.7	0.9	0.5	0.5	1.5	0.4	2.3	2.6	0.7	0.7	2.7	1.5	0.7	1.0	1.5	1.3	0.7
STD ERR OF P	0.5	1.0	1.5	0.7	1.1	0.7	0.7	1.8	0.4	2.4	2.8	0.7	1.1	2.9	1.7	0.8	1.1	1.6	1.3	0.7
RESPONSE: 07 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	9.8	1.0	0.3	0.5	-1.7	-1.6*	1.6*	3.9*	-1.0*	-0.3	-2.4	-0.9	-6.0*	4.4	1.0	-1.2	-2.9*	1.5	0.4	0.4
STD ERR OF DP		1.1	1.3	1.2	1.1	0.6	0.7	1.8	0.4	2.6	2.7	1.2	0.7	2.6	2.2	0.9	1.3	2.0	1.9	3.1
STD ERR OF P	0.7	1.2	1.4	1.5	1.3	0.8	1.1	1.8	0.8	2.6	2.6	1.5	0.7	2.8	2.3	0.9	1.3	2.2	1.9	3.4

RC06
OBJ IV

An astronaut is to orbit the earth in a space capsule for seven days. If he drinks three pints of water each day, how many pints of drinking water will he need for the trip?

ANSWER ______________________

Report #: RC06

NAEP #: C10030-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 01-18
National P-value:
RC06 45.85

Timing: (in seconds)
Stimulus: 11
Response: 31
RC06 Exercise total: 42

SCORING GUIDE
RC06
C10030-1

00 = No Response

10 = 21; 21 pints

11 = Correct process with no answer or wrong answer; e.g., 3 x 7

20 = 10; any attempt to add 7 and 3

21 = 3

22 = 4; any attempt to subtract 3 from 7

23 = 7

24 = Other Unacceptable

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

EXERCISE: RC06

An astronaut is to orbit the earth in a space capsule for seven days. If he drinks three pints of water each day, how many pints of drinking water will he need for the trip?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	3.1	0.5	-0.3	0.5	-0.7	1.0#	-1.0#	1.5	-0.4	3.2	-2.0*	-1.4*	-0.9	1.9	0.2	0.5	-0.7	1.2	-0.8	-1.7*
STD ERR OF DP		0.5	0.6	0.5	0.6	0.4	0.4	0.9	0.2	2.6	0.9	0.6	0.6	1.4	1.4	0.6	0.9	1.2	1.0	0.7
STD ERR OF P	0.3	0.6	0.8	0.6	0.6	0.5	0.5	1.0	0.3	2.7	0.8	0.6	0.6	1.5	1.4	0.6	1.0	1.4	1.0	0.7
RESPONSE: 10* AGE: 9 TEXT: 21; 21 pints (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	45.9	-10.3#	-2.8	4.7*	7.1#	-1.1	1.1	-26.4#	6.0#	-6.3	-15.1#	0.3	11.8#	-28.9#	-7.5	-0.2	1.4	-1.7	6.7	13.3#
STD ERR OF DP		1.9	2.3	2.1	2.2	1.1	1.1	3.2	0.9	4.3	4.1	2.2	1.6	2.4	5.7	2.0	3.0	3.2	4.4	3.6
P-VALUE	45.9	35.6	43.0	50.5	52.9	44.8	46.9	19.5	51.9	39.5	30.8	46.2	57.6	16.9	38.4	45.7	47.2	44.2	52.6	59.2
STD ERR OF P	1.3	1.9	2.7	2.5	2.6	1.6	1.8	3.6	1.4	4.5	4.2	2.5	2.3	2.4	6.0	1.9	3.1	3.6	4.7	3.9
RESPONSE: 11 AGE: 9 TEXT: Correct process with no answer or wrong answer; e.g., 3 x 7																				
DELTA-P	0.2	-0.1	0.0	0.0	0.1	-0.1	0.1	0.1	-0.0	-0.2*	0.3	-0.1	-0.2*	0.2	0.1	-0.1	0.1	-0.2*	-0.2*	0.3
STD ERR OF DP		0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.0	0.1	0.5	0.1	0.1	0.3	0.3	0.1	0.3	0.1	0.1	0.5
STD ERR OF P	0.1	0.1	0.2	0.1	0.3	0.1	0.2	0.2	0.1	0.0	0.5	0.1	0.0	0.4	0.3	0.1	0.3	0.0	0.0	0.5
RESPONSE: 20 AGE: 9 TEXT: 10; any attempt to add 7 and 3																				
DELTA-P	2.1	1.3*	-0.2	0.5	-1.4#	-0.3	0.3	1.7	-0.3	1.4	2.8	-0.6	-0.6	0.4	2.9*	-0.6	-0.4	0.4	0.3	-0.8
STD ERR OF DP		0.5	0.4	0.5	0.3	0.2	0.2	1.2	0.2	1.7	2.3	0.5	0.4	0.7	1.4	0.4	0.6	1.0	0.8	0.6
STD ERR OF P	0.3	0.6	0.4	0.6	0.3	0.3	0.4	1.2	0.3	1.8	2.4	0.5	0.5	0.8	1.5	0.5	0.6	1.1	0.9	0.6
RESPONSE: 21 AGE: 9 TEXT: 3																				
DELTA-P	2.1	1.0	-0.7	0.6	-0.7	-0.3	0.3	4.7#	-1.0#	1.2	2.5	0.5	-0.5	6.0#	0.3	-0.2	-0.3	-0.1	-0.3	-2.1#
STD ERR OF DP		0.8	0.5	0.7	0.5	0.3	0.3	1.4	0.3	1.2	2.0	0.7	0.4	2.1	1.2	0.5	0.6	1.4	0.7	0.4
STD ERR OF P	0.4	0.9	0.5	0.8	0.6	0.4	0.5	1.6	0.3	1.3	2.0	0.8	0.5	2.3	1.3	0.6	0.6	1.5	0.7	0.0
RESPONSE: 22 AGE: 9 TEXT: 4; any attempt to subtract 3 from 7																				
DELTA-P	2.1	0.8	-0.1	-0.5	-0.1	-0.4	0.4	2.3*	-0.6	0.5	0.4	-0.3	-0.6	3.5	0.1	-0.6	0.2	-0.8	-0.3	0.2
STD ERR OF DP		0.8	0.8	0.5	0.6	0.3	0.3	1.1	0.3	1.6	1.4	0.6	0.5	3.2	1.4	0.5	0.8	0.8	0.8	1.4
STD ERR OF P	0.4	0.9	1.0	0.5	0.6	0.4	0.5	1.3	0.3	1.7	1.5	0.7	0.6	3.3	1.5	0.5	0.9	0.7	0.8	1.5
RESPONSE: 23 AGE: 9 TEXT: 7																				
DELTA-P	7.1	3.2*	0.2	-1.9	-1.1	0.6	-0.6	2.4*	-0.9#	-0.6	3.1	-1.1	-1.4	1.8	-0.3	-0.1	1.3	-0.4	-1.4	-0.2
STD ERR OF DP		1.3	1.3	1.0	1.2	0.5	0.5	1.0	0.3	1.9	3.1	1.1	0.8	2.2	1.6	0.8	1.3	1.5	1.4	1.4
STD ERR OF P	0.7	1.5	1.5	1.1	1.4	0.8	0.9	1.1	0.7	2.0	3.3	1.2	1.1	2.3	1.7	1.2	1.5	1.6	1.5	1.5
RESPONSE: 24 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	24.0	7.2#	0.3	-3.0	-3.5	1.0	-1.0	14.0#	-2.4#	1.2	3.0	4.6*	-2.1	12.1#	0.6	2.2	0.2	-0.6	-5.6	-5.9*
STD ERR OF DP		2.1	1.9	1.8	2.0	0.8	0.8	2.7	0.7	3.5	3.8	1.9	1.2	3.9	3.6	1.9	2.1	3.3	3.0	2.5
STD ERR OF P	1.1	2.5	2.2	2.1	2.3	1.5	1.2	3.1	1.2	3.8	4.0	2.2	1.7	4.1	3.7	2.3	2.2	3.5	3.3	2.5
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	13.4	-3.5*	3.6	-0.9	0.4	-0.4	0.4	-0.4	-0.5	-0.3	5.1	-2.0	-5.6#	3.2	3.6	-1.0	-1.8	2.2	1.6	-3.2
STD ERR OF DP		1.6	2.1	1.7	1.9	0.7	0.7	2.1	0.5	3.0	4.2	1.4	1.1	3.4	5.1	1.6	2.4	2.5	2.4	1.9
STD ERR OF P	1.1	1.6	2.6	1.9	2.3	1.3	1.3	2.2	1.3	3.2	4.1	1.6	1.4	3.5	5.5	2.0	2.5	2.8	2.4	1.9

RC07
OBJ IV

Betty's dog eats two biscuits every day. How many days will it take the dog to finish a package of 24 biscuits?

ANSWER ____________________

Report #: RC07

NAEP #: C10036-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		05-01
National P-value:		
	RC07	36.71

Timing: (in seconds)

	Stimulus:	8
	Response:	30
RC07	Exercise total:	38

SCORING GUIDE
RC07
C10036-1

00 = No Response

10 = 12; 12 days

11 = 12 with wrong units; e.g., 12 biscuits

12 = 24/2; attempt to divide 24 by 2

20 = 22 (days); attempt to subtract 2 from 24

21 = 26 (days); attempt to add 24 and 2

22 = 48 (days); attempt to multiply 24 by 2

23 = 24

24 = Other Unacceptable

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

EXERCISE: RC07

Betty's dog eats two biscuits every day. How many days will it take the dog to finish a package of 24 biscuits?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	3.7	-0.4	1.4	-1.0	-0.0	0.2	-0.2	2.2	-1.7*	3.1	-0.3	-1.6	-1.9#	6.9	7.8	-1.8*	-1.8	1.8	-3.7#	-2.1
STD ERR OF DP		0.9	2.0	1.1	1.1	0.4	0.4	1.6	0.7	1.6	1.9	0.9	0.5	4.0	6.3	0.8	1.0	1.3	0.8	1.1
STD ERR OF P	0.8	0.5	2.7	1.1	1.0	1.0	0.8	1.7	0.3	2.2	1.9	0.6	0.6	4.3	6.9	0.4	0.7	1.2	0.0	0.7
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)																				
DELTA-P	36.7	-5.9#	-3.3	4.3	4.9	3.7#	-3.7#	-14.2#	3.8#	-13.9#	1.8	6.3*	5.7#	-13.4#	-6.2	-2.6	0.2	-2.0	7.6	15.2#
STD ERR OF DP		2.1	2.4	2.4	3.0	1.3	1.3	3.0	0.9	4.3	7.0	2.9	1.7	3.7	5.1	2.2	3.5	2.7	4.5	4.2
P-VALUE	36.7	30.8	33.4	41.1	41.7	40.4	33.0	22.5	40.5	22.9	38.5	43.0	42.4	23.3	30.5	34.1	36.9	34.8	44.3	51.9
STD ERR OF P	1.5	2.1	2.8	2.8	3.6	2.1	1.8	2.8	1.8	4.3	7.5	3.4	2.2	3.3	5.1	2.9	3.6	2.7	4.9	4.4
RESPONSE: 10 AGE: 9 TEXT: 12; 12 days																				
DELTA-P	35.6	-5.4#	-3.2	4.1	4.6	3.5#	-3.5#	-13.2#	3.6#	-12.8#	2.3	6.5*	5.4#	-13.3#	-6.2	-2.9	-0.0	-1.5	8.5	14.9#
STD ERR OF DP		2.1	2.5	2.3	3.3	1.3	1.3	3.0	0.9	4.3	7.2	2.9	1.9	3.5	5.2	2.2	3.3	2.6	4.5	4.0
STD ERR OF P	1.5	2.1	2.9	2.5	4.0	2.0	1.9	2.8	1.8	4.3	7.6	3.4	2.2	3.2	5.2	3.0	3.4	2.6	4.8	4.2
RESPONSE: 11 AGE: 9 TEXT: 12 with wrong units; e.g., 12 biscuits																				
DELTA-P	1.1	-0.5	-0.1	0.3	0.3	0.2	-0.2	-1.0#	0.2*	-1.1#	-0.5	-0.2	0.3	-0.1	-0.0	0.3	0.2	-0.5	-0.9#	0.3
STD ERR OF DP		0.4	0.4	0.5	0.7	0.3	0.3	0.3	0.1	0.3	0.6	0.4	0.4	1.0	0.8	0.5	0.7	0.5	0.3	0.6
STD ERR OF P	0.3	0.3	0.5	0.6	0.8	0.4	0.4	0.1	0.4	0.0	0.6	0.4	0.5	1.0	0.8	0.7	0.7	0.4	0.2	0.6
RESPONSE: 12 AGE: 9 TEXT: 24/2; attempt to divide 24 by 2																				
DELTA-P	0.4	0.1	-0.3	-0.1	0.4	-0.0	0.0	-0.4*	0.1#	0.1	-0.4*	0.5	-0.1	-0.4*	0.0	-0.1	-0.3	-0.4*	0.3	1.0
STD ERR OF DP		0.3	0.2	0.2	0.5	0.2	0.2	0.2	0.1	0.5	0.2	0.6	0.2	0.2	0.4	0.2	0.2	0.2	0.5	0.9
STD ERR OF P	0.2	0.4	0.1	0.2	0.6	0.2	0.3	0.0	0.2	0.5	0.0	0.7	0.2	0.0	0.3	0.3	0.2	0.0	0.5	1.0
RESPONSE: 20 AGE: 9 TEXT: 22 (days); attempt to subtract 2 from 24																				
DELTA-P	3.7	-2.0#	1.2	1.9	-1.3	-0.9	0.9	-1.0	0.2	0.2	-1.4	-1.5*	1.3	-0.1	1.7	-0.5	-0.6	2.6	0.9	-2.6#
STD ERR OF DP		0.6	0.8	1.0	0.9	0.5	0.5	1.4	0.3	1.7	1.5	0.7	0.9	2.0	2.4	0.8	1.2	1.6	1.8	0.7
STD ERR OF P	0.5	0.5	0.9	1.3	1.1	0.7	0.8	1.5	0.6	1.6	1.4	0.7	1.2	2.0	2.5	0.9	1.3	1.8	1.9	0.6
RESPONSE: 21 AGE: 9 TEXT: 26 (days); attempt to add 24 and 2																				
DELTA-P	4.0	-0.9	1.5	-0.2	-0.5	-1.6#	1.6#	0.1	-0.3	0.4	-1.9	0.5	1.2	0.4	2.8	0.1	-2.7#	-0.8	1.7	-0.3
STD ERR OF DP		0.8	1.0	0.9	0.8	0.5	0.5	1.0	0.3	2.3	1.5	1.0	0.7	1.7	1.4	0.7	0.8	0.9	1.9	1.2
STD ERR OF P	0.5	0.9	1.2	1.0	0.9	0.5	0.9	1.0	0.6	2.4	1.5	1.2	1.0	1.8	1.5	0.9	0.7	0.8	2.0	1.4
RESPONSE: 22 AGE: 9 TEXT: 48 (days); attempt to multiply 24 by 2																				
DELTA-P	7.6	-2.9*	1.1	-0.3	2.0	-0.3	0.3	-4.0#	1.1#	-2.6	-2.5	-1.4	2.2*	-4.8#	-3.3#	0.2	1.0	-0.9	2.3	2.9
STD ERR OF DP		1.2	1.2	1.3	1.4	0.6	0.6	1.2	0.3	2.0	[illegible]	1.1	1.0	1.3	1.3	1.1	1.8	1.5	1.9	2.1
STD ERR OF P	0.7	1.4	1.4	1.5	1.7	0.9	1.0	1.2	0.9	2.0	2.6	1.2	1.4	1.3	1.3	1.4	2.0	1.6	2.0	2.3
RESPONSE: 23 AGE: 9 TEXT: 24																				
DELTA-P	2.5	0.6	0.5	-0.3	-0.8	0.2	-0.2	2.2*	-0.4	-1.0	-1.2	-0.5	-0.3	2.5*	0.2	0.1	0.6	-0.3	-0.5	-1.9#
STD ERR OF DP		0.6	0.8	0.7	0.6	0.3	0.3	1.1	0.2	1.0	0.9	0.7	0.5	1.2	0.8	0.5	0.8	0.7	0.9	0.5
STD ERR OF P	0.4	0.7	0.9	0.8	0.6	0.5	0.5	1.2	0.4	1.0	0.8	0.8	0.6	1.2	0.8	0.7	1.0	0.7	1.0	0.5
RESPONSE: 24 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	23.8	9.4#	-3.5	-2.3	-3.4	-1.3	1.3	14.7#	-2.7#	9.5#	0.5	-1.4	-4.0#	6.1	1.8	3.2	0.4	3.0	-9.4#	-9.0#
STD ERR OF DP		2.7	2.0	1.9	1.9	1.3	1.3	2.6	0.7	3.7	4.8	1.7	1.2	4.7	3.0	1.8	3.2	2.5	2.0	2.7
STD ERR OF P	1.2	3.3	2.3	2.1	2.1	1.6	1.9	2.8	1.3	3.5	4.8	1.9	1.6	5.0	2.9	2.2	3.4	2.4	1.8	3.0
RESPONSE: [illegible] AGE: 9 TEXT: I Don't Know.																				
DELTA-P	17.7	1.9	1.3	-1.9	-1.3	0.1	-0.1	0.5	-0.2	4.2	5.4	-1.0	-4.1#	2.8	-4.7	1.4	3.3	-2.9	0.8	[illegible]
STD ERR OF DP		1.5	1.7	1.4	2.0	0.8	0.8	2.2	0.6	3.8	4.1	1.8	1.3	3.7	3.2	1.6	2.6	1.7	2.8	[illegible]
STD ERR OF P	1.0	1.7	2.0	1.4	2.4	1.2	1.4	2.5	1.0	4.0	4.3	1.9	1.5	3.9	3.3	2.1	2.6	1.7	2.9	3.1

RC08
OBJ IV

The air temperature on the ground is 31 degrees. On top of a nearby mountain, the temperature is -7 degrees. How many degrees difference is there between these two temperatures?

ANSWER ______________________

SCORING GUIDE
RC08
C10046-234

00 = No Response

10 = 38; -38 with or without sign for degrees

20 = 24; -24 with or without sign for degrees

21 = 39; -39 with or without sign for degrees

22 = Other Unacceptable

39 = I Don't Know.

Report #: RC08

NAEP #: C10046-234

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		09-32	06-16	02-11
National P-value:				
	RC08	38.52	64.62	66.60
Timing: (in seconds)				
	Stimulus:	15	13	18
	Response:	31	30	*
RC08	Exercise total:	46	43	*

*Time not limited by paced tape.

EXERCISE: RC08

The air temperature on the ground is 31 degrees. On top of a nearby mountain, the temperature is -7 degrees. How many degrees difference is there between these two temperatures?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	6.8	3.4	2.2	-2.1	-3.5	-1.0	1.1	2.7	-0.7	3.4	2.8	-0.3	-2.4*	13.8	-5.0*	-0.9	-0.3	3.6	1.3	-4.2
STD ERR OF DP		3.4	3.9	2.5	2.1	0.7	0.7	3.2	0.5	3.1	2.7	1.0	0.9	14.6	2.4	2.3	4.3	5.4	4.9	2.5
STD ERR OF P	1.8	4.0	5.0	2.6	1.7	1.5	2.3	3.4	1.8	4.4	3.4	2.0	1.5	15.4	1.9	2.5	4.6	5.7	5.4	2.1
AGE: 17																				
DELTA-P	0.4	0.3	0.0	-0.0	-0.2	-0.0	0.0	1.4	-0.2	-0.1	0.4	-0.1	-0.2	-0.2	-0.4*	0.0	0.1	0.3	-0.4*	0.5
STD ERR OF DP		0.4	0.3	0.2	0.2	0.2	0.2	0.9	0.1	0.3	0.5	0.2	0.2	0.2	0.2	0.2	0.4	0.7	0.2	0.7
STD ERR OF P	0.1	0.4	0.4	0.2	0.2	0.2	0.2	1.0	0.1	0.3	0.5	0.2	0.2	0.2	0.0	0.3	0.4	0.7	0.0	0.7
AGE: Ad																				
DELTA-P	0.2	0.9	-0.3	-0.3	-0.3	0.3	-0.3	-0.3	0.1	-0.1	-0.3	0.4	-0.3	-0.3	0.2	-0.3	-0.3	-0.3	1.6	-0.3
STD ERR OF DP		0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.5	0.2	0.2	0.4	0.2	0.2	0.2	1.6	0.2
STD ERR OF P	0.2	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.3	0.1	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.0	1.9	0.0
RESPONSE: 10* AGE: 13 TEXT: 38; -38 with or without sign for degrees																				
DELTA-P	38.5	-10.6*	-1.6	3.5	8.3*	7.9*	-8.6*	-28.3*	5.4*	-21.7*	-10.2*	-1.6	13.4*	-21.5*	-5.9	-2.2	1.9	-5.1	2.4	21.7*
STD ERR OF DP		2.9	2.1	2.6	2.7	1.0	1.2	1.9	0.7	3.2	3.6	1.8	1.7	6.8	3.0	2.2	4.9	4.5	3.6	3.9
P-VALUE	38.5	28.0	36.9	42.0	46.8	46.4	29.9	10.2	43.9	16.8	28.3	36.9	52.0	17.0	32.6	36.3	40.3	33.4	40.9	60.3
STD ERR OF P	1.4	3.2	2.2	3.1	3.2	1.9	1.5	1.7	1.6	3.4	3.5	2.3	2.4	6.7	2.6	2.7	5.5	4.7	3.4	4.2
AGE: 17																				
DELTA-P	64.6	-15.5*	-2.9	7.2*	7.1*	5.0*	-4.6*	-40.9*	7.8*	-24.6*	-21.7*	1.7	14.3*	-24.9*	-10.8*	-0.9	2.5	-3.3	9.9*	12.2*
STD ERR OF DP		2.7	2.8	1.8	2.0	1.3	1.3	2.9	1.0	3.9	3.1	1.7	1.3	4.9	5.0	1.8	3.8	5.7	3.5	3.9
P-VALUE	64.6	49.1	61.7	71.8	71.7	69.6	60.0	23.7	72.4	40.1	42.9	66.3	78.9	39.8	53.8	63.7	67.1	61.3	74.5	76.8
STD ERR OF P	1.4	3.2	3.4	1.9	2.1	1.7	2.1	3.6	1.2	4.0	3.6	2.3	1.4	5.1	5.0	1.9	4.1	6.0	3.7	4.3
AGE: Ad																				
DELTA-P	66.6	-8.5*	3.3	4.1	-1.0	6.7*	-6.2*	-44.7*	7.9*	-15.9*	-3.9	5.4*	16.2*	-26.8*	-0.7	-0.3	1.3	0.9	3.3	15.4*
STD ERR OF DP		2.7	2.8	2.5	2.0	1.3	1.2	3.4	0.9	1.9	2.5	1.6	1.7	4.7	4.3	1.9	3.7	3.9	5.4	3.4
P-VALUE	66.6	58.1	69.9	70.7	65.6	73.3	60.4	21.9	74.5	50.7	62.8	72.0	82.9	39.8	65.9	66.3	67.9	67.4	69.9	82.0
STD ERR OF P	1.5	2.8	3.5	3.1	1.9	1.7	2.1	3.2	1.3	2.5	2.6	2.2	2.0	4.6	4.4	2.1	3.7	3.9	6.3	3.6
RESPONSE: 20 AGE: 13 TEXT: 24; -24 with or without sign for degrees																				
DELTA-P	33.2	3.7	-1.9	0.9	-2.5	-7.1*	7.7*	9.0*	-1.8*	10.0*	5.3	3.2	-6.9*	-4.5	5.3*	4.3	-1.7	1.3	-2.8	-10.3*
STD ERR OF DP		2.9	2.2	2.0	2.1	1.0	1.2	3.0	0.6	4.8	4.0	1.6	1.3	4.7	2.3	2.4	4.3	3.6	2.9	3.4
STD ERR OF P	1.3	3.5	2.5	2.3	2.2	1.7	1.6	3.2	1.4	5.4	4.0	2.1	1.7	4.9	1.8	3.0	4.6	3.8	3.0	3.5
AGE: 17																				
DELTA-P	20.5	10.3*	0.1	-4.6*	-3.2	-4.1*	3.8*	31.8*	-6.0*	11.8*	13.1*	0.9	-9.8*	17.8*	3.0	-0.8	-0.5	10.0	-4.2	-10.8*
STD ERR OF DP		3.1	2.3	2.0	[illegible]	1.1	1.0	3.8	0.9	3.4	3.2	1.4	1.3	4.2	4.5	1.7	3.0	5.5	3.7	3.7
STD ERR OF P	1.4	3.8	2.6	2.3	1.8	1.5	1.9	4.5	1.1	3.8	3.5	2.1	1.3	4.3	4.6	[illegible]	3.0	5.9	4.4	4.0
AGE: Ad																				
DELTA-P	16.7	8.1*	-3.2	-2.7*	-0.4	-4.2*	3.9*	25.7*	-3.9*	13.6*	2.0	-3.4*	-11.9*	15.9*	-3.0	1.5	-0.4	-2.4	-2.6	-9.4*
STD ERR OF DP		2.2	1.8	1.4	1.6	0.8	0.8	3.6	0.6	1.9	2.2	1.4	1.0	4.2	3.2	1.3	2.4	3.6	3.4	2.3
STD ERR OF P	1.0	2.6	2.2	1.4	1.8	1.2	1.3	3.8	1.0	2.2	2.3	1.8	0.9	4.3	3.3	1.5	2.5	3.7	3.7	2.4
RESPONSE: 21 AGE: 13 TEXT: 39; -39 with or without sign for degrees																				
DELTA-P	0.7	-0.2	-0.4	0.4	0.2	0.3	-0.3	-0.7*	0.2*	-0.0	-0.4	-0.3	0.1	-0.7*	0.8	0.0	-0.3	0.0	0.5	-0.7*
STD ERR OF DP		0.2	0.3	0.5	0.3	0.2	0.2	0.2	0.1	0.6	0.3	0.3	0.3	0.2	1.2	0.3	0.4	0.5	0.5	0.2
STD ERR OF P	0.2	0.1	0.2	0.6	0.3	0.4	0.1	0.0	0.2	0.6	0.3	0.3	0.5	0.0	1.3	0.3	0.4	0.5	0.6	0.0
AGE: 17																				
DELTA-P	2.1	-0.8	-0.1	1.3	-0.7	0.9*	-0.8*	-1.9*	0.4*	-1.5*	0.1	0.0	0.4	-0.6	1.5	-0.1	-0.6	-1.0	-0.1	0.9
STD ERR OF DP		0.6	0.7	0.7	0.4	0.4	0.3	0.4	0.1	0.5	0.5	0.4	0.3	0.7	1.7	0.5	0.7	0.8	0.9	0.8
STD ERR OF P	0.4	0.6	0.8	0.9	0.3	0.6	0.4	0.2	0.4	0.5	0.4	0.5	0.6	0.7	1.8	0.5	0.8	0.7	1.0	0.9

EXERCISE: RC08

The air temperature on the ground is 31 degrees. On top of a nearby mountain, the temperature is -7 degrees. How many degrees difference is there between these two temperatures?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad — TEXT: 39; -39 with or without sign for degrees																				
DELTA-P	2.1	-0.2	-0.4	-0.1	0.9	1.1*	-1.0*	-1.2	0.1	-1.5*	-1.1	0.5	1.8*	-0.8	0.4	-0.5	-1.4*	-0.7	1.2	2.5
STD ERR OF DP		0.8	0.6	0.5	1.2	0.4	0.4	0.8	0.2	0.5	0.7	0.6	0.8	1.0	1.9	0.4	0.6	0.9	1.2	2.3
STD ERR OF P	0.4	0.9	0.5	0.5	1.5	0.8	0.4	0.7	0.5	0.3	0.6	0.9	1.1	0.9	2.0	0.4	0.5	0.8	1.2	2.7
RESPONSE: 22 AGE: 13 — TEXT: Other Unacceptable																				
DELTA-P	16.7	2.6	0.9	-2.5	-0.9	-0.4	0.4	15.0*	-2.4*	7.2*	2.4	-0.7	-3.1*	6.2	3.3	-1.7	1.7	1.6	-0.7	-3.7
STD ERR OF DP		1.6	1.5	1.5	1.6	0.8	0.9	3.0	0.5	3.5	2.6	1.4	1.0	5.6	3.3	1.3	1.9	2.8	2.1	2.1
STD ERR OF P	0.9	1.8	1.8	1.8	1.8	1.3	1.1	3.3	0.8	3.6	2.8	1.6	1.4	5.9	3.7	1.4	1.8	3.0	2.1	2.2
AGE: 17																				
DELTA-P	9.6	4.6*	2.4	-3.3*	-2.3*	-0.7	0.7	5.8*	-1.1*	10.0*	5.3*	-1.6	-2.8*	4.1	6.2	1.0	-0.5	-5.0*	-3.1*	-2.2
STD ERR OF DP		1.9	1.3	0.8	1.1	0.8	0.8	2.5	0.4	4.0	2.0	0.9	0.7	3.1	4.0	0.8	1.8	1.6	1.6	2.3
STD ERR OF P	0.7	2.2	1.5	0.7	1.2	0.8	1.2	2.6	0.8	4.4	2.1	1.0	0.7	3.2	4.3	0.9	2.0	1.6	1.6	2.3
AGE: Ad																				
DELTA-P	10.4	-1.0	0.6	0.1	0.2	-1.4	1.3	11.8*	-2.6*	2.9*	1.8	-2.3*	-3.1*	5.0	2.5	-0.1	1.4	1.5	-0.5	-6.3*
STD ERR OF DP		1.3	1.5	1.7	1.6	0.9	0.8	2.6	0.5	1.2	2.0	1.1	1.1	2.9	1.8	1.2	2.0	2.7	2.9	1.1
STD ERR OF P	0.9	1.2	1.6	2.2	1.9	1.2	1.3	2.9	0.8	1.6	2.2	1.3	1.3	3.1	1.7	1.4	2.3	3.0	3.3	1.0
RESPONSE: 39 AGE: 13 — TEXT: I Don't Know.																				
DELTA-P	4.1	1.1	0.8	-0.2	-1.6*	0.3	-0.3	2.4	-0.7*	1.1	0.1	-0.2	-1.5*	6.8	1.6	0.5	-1.2	-1.4	-0.7	-2.9*
STD ERR OF DP		0.8	1.0	0.6	0.6	0.5	0.5	1.3	0.3	1.5	1.3	0.8	0.5	3.9	1.0	0.6	1.0	1.1	1.1	0.7
STD ERR OF P	0.5	1.0	1.3	0.7	0.5	0.8	0.6	1.2	0.5	1.6	1.4	1.0	0.5	4.1	1.0	0.8	1.0	1.1	1.1	0.7
AGE: 17																				
DELTA-P	2.8	1.1	0.5	-0.6	-0.8	-1.0*	0.9*	3.9	-0.9*	4.4*	2.8	-0.9*	-1.9*	3.8	0.6	0.9	-1.2	-1.1	-2.1*	-0.6
STD ERR OF DP		0.9	0.5	0.5	0.4	0.3	0.1	2.0	0.2	1.3	1.8	0.4	0.3	1.9	0.9	0.6	1.1	1.0	0.5	1.2
STD ERR OF P	0.3	1.1	0.6	0.6	0.4	0.3	0.5	2.1	0.3	1.4	1.9	0.5	0.3	1.9	0.9	0.7	1.1	1.0	0.3	1.2
AGE: Ad																				
DELTA-P	3.9	0.6	0.1	-1.1	0.7	-2.5*	2.3*	8.7*	-1.6*	0.9	1.4	-0.7	-2.7*	7.0*	0.7	-0.4	-0.5	1.0	-2.9*	-1.8
STD ERR OF DP		0.9	0.9	0.9	0.9	0.5	0.4	2.3	0.4	1.0	1.2	0.8	0.6	2.6	1.4	0.7	1.3	2.0	0.8	1.2
STD ERR OF P	0.5	0.7	1.1	1.1	1.0	0.4	0.9	2.6	0.4	1.1	1.3	0.9	0.5	2.9	1.5	0.7	1.3	2.2	0.7	1.2

RC09
OBJ II

10 X 10 X 10 X 10 =

ANSWER ______________________

Report #: RC09

NAEP #: C10057-123

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17
Package-Exercise:		06-25	03-30	11-27
National P-value:				
	RC09	4.27	67.07	79.71
Timing: (in seconds)				
	Stimulus:	4	4	4
	Response:	26	27	26
RC09	Exercise total:	30	31	30

SCORING GUIDE
RC09
C10057-123

00 = No Response

10 = 10,000; 10000

11 = 10 to the 4th power

20 = 40; 400; 4000; 40,000

21 = 200

22 = 10... where the number of 0's is not 4

23 = Other Unacceptable

39 = I Don't Know.

EXERCISE: BC09

10 x 10 x 10 x 10 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.3	0.1	0.2	-0.3	0.1	0.1	-0.1	0.6	-0.2	1.1	-0.3	-0.1	-0.6*	1.3	-0.3	0.2	-0.2	-0.1	0.0	-0.9*
STD ERR OF DP		0.5	0.6	0.4	0.4	0.2	0.2	0.8	0.2	1.5	1.0	0.4	0.3	1.2	0.7	0.4	0.6	0.6	0.7	0.4
STD ERR OF P	0.3	0.7	0.7	0.5	0.4	0.4	0.3	0.9	0.3	1.5	1.0	0.5	0.3	1.4	0.8	0.4	0.6	0.7	0.8	0.4
AGE: 13																				
DELTA-P	4.6	-3.9#	5.7	0.9	-3.5*	0.5	-0.5	-0.1	-0.4	-1.9*	-1.5	-0.5	-0.4	7.2	4.0	-1.8	-4.3#	-1.2	7.8	-4.6#
STD ERR OF DP		1.5	3.3	3.0	1.6	0.5	0.4	2.1	0.5	0.9	1.8	0.7	0.8	6.4	7.3	1.9	1.5	2.2	6.8	1.5
STD ERR OF P	1.5	0.3	4.1	3.9	0.7	1.7	1.5	1.5	1.8	1.5	1.9	1.8	1.6	6.3	8.0	2.4	0.3	2.2	7.6	0.0
AGE: 17																				
DELTA-P	1.2	-0.9	3.0	-1.2*	-0.9	0.1	-0.1	1.6	-0.2	1.3	-0.2	-0.6	0.4	2.1	-1.2*	-0.8	-1.2*	-0.5	-1.2*	5.5
STD ERR OF DP		0.7	1.8	0.6	0.7	0.1	0.1	2.1	0.4	1.6	1.2	0.7	1.0	2.7	0.6	0.6	0.6	0.9	0.6	6.0
STD ERR OF P	0.6	0.3	2.4	0.0	0.3	0.7	0.6	2.0	0.8	1.5	0.9	0.3	1.5	2.6	0.0	0.3	0.0	0.7	0.0	6.5
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	4.3	0.2	-1.0	0.6	-0.1	1.3#	-1.4#	-2.2#	0.6#	-1.0	-0.8	0.0	2.6*	-3.3#	0.5	-0.8	2.0	-1.4	0.5	2.3
STD ERR OF DP		1.2	1.1	0.8	1.0	0.5	0.5	0.8	0.2	1.7	1.8	1.1	1.1	0.8	1.5	0.7	2.0	1.0	1.2	2.7
P-VALUE	4.3	4.5	3.2	4.9	4.2	5.6	2.9	2.1	4.9	3.3	3.4	4.3	6.9	1.0	4.8	3.5	6.2	2.9	4.8	6.6
STD ERR OF P	0.6	1.5	1.2	0.8	1.2	0.9	0.6	0.9	0.7	1.7	1.8	1.2	1.5	0.6	1.5	0.6	2.2	0.9	1.2	3.0
AGE: 13																				
DELTA-P	67.1	-7.1*	-4.2	1.9	8.7*	-3.7#	3.4#	-27.9#	5.8#	-18.9#	-8.6*	1.4	10.1#	-30.7#	-10.5	-0.4	7.2	-3.0	5.1	18.3#
STD ERR OF DP		3.4	3.6	3.3	3.7	1.1	1.1	4.9	1.1	4.1	3.5	1.7	1.2	6.0	6.9	2.5	4.0	4.6	6.1	2.6
P-VALUE	67.1	59.9	62.9	68.9	75.8	63.4	70.5	39.2	72.8	48.1	58.5	68.5	77.2	36.4	56.6	66.7	74.3	64.1	72.2	85.4
STD ERR OF P	2.0	3.6	4.3	4.0	4.3	2.2	2.3	4.9	2.2	4.6	3.9	2.5	2.1	5.4	7.7	3.4	4.0	4.9	6.7	1.9
AGE: 17																				
DELTA-P	79.7	-2.9	-3.3	3.2	1.8	2.4#	-2.5#	-24.0#	4.4#	-13.4#	-13.7#	1.9	7.6#	-18.4#	-5.8	4.2#	5.9#	-1.2	2.2	0.6
STD ERR OF DP		2.0	2.1	1.7	1.9	0.8	0.9	2.3	0.7	3.7	2.9	1.3	1.5	4.1	3.8	1.6	2.2	4.5	2.9	5.9
P-VALUE	79.7	76.8	76.5	82.9	81.5	82.1	77.2	55.8	84.1	66.3	66.0	81.6	87.3	61.3	73.9	83.9	85.6	78.5	81.9	80.3
STD ERR OF P	1.1	2.1	2.6	2.1	2.1	1.2	1.6	2.5	1.3	3.9	3.1	1.7	1.8	4.0	4.0	1.8	2.2	4.7	3.2	6.2
RESPONSE: 10 AGE: 9 TEXT: 10,000; 10000																				
DELTA-P	4.3	0.2	-1.0	0.6	-0.1	1.3#	-1.4#	-2.2#	0.6#	-1.0	-0.8	0.0	2.6*	-3.3#	0.5	-0.8	2.0	-1.4	0.5	2.3
STD ERR OF DP		1.2	1.1	0.8	1.0	0.5	0.5	0.8	0.2	1.7	1.8	1.1	1.1	0.8	1.5	0.7	2.0	1.0	1.2	2.7
STD ERR OF P	0.6	1.5	1.2	0.8	1.2	0.9	0.6	0.9	0.7	1.7	1.8	1.2	1.5	0.6	1.5	0.6	2.2	0.9	1.2	3.0
AGE: 13																				
DELTA-P	66.4	-7.4*	-4.5	2.1	9.1*	-3.8#	3.5#	-28.5#	5.9#	-18.3#	-9.0#	1.7	9.9#	-31.4#	-9.8	-0.2	7.1	-3.6	5.0	18.6#
STD ERR OF DP		3.4	3.7	3.4	3.7	1.1	1.1	4.8	1.1	4.1	3.6	1.7	1.2	5.5	6.9	2.5	4.1	4.6	6.0	2.6
STD ERR OF P	2.0	3.7	4.4	4.0	4.2	2.3	2.4	4.7	2.2	4.6	4.1	2.5	2.2	4.9	7.7	3.4	4.1	4.9	6.6	1.9
AGE: 17																				
DELTA-P	79.1	-3.2	-3.5	3.1	2.5	2.5#	-2.7#	-24.4#	4.5#	-12.9#	-13.5#	2.0	7.3#	-17.9#	-5.5	3.7*	6.1#	-0.6	2.0	1.3
STD ERR OF DP		2.0	2.2	1.9	1.9	0.8	0.9	2.6	0.8	3.7	2.9	1.4	1.5	4.2	3.7	1.6	2.3	4.5	2.9	5.9
STD ERR OF P	1.2	2.0	2.6	2.3	2.1	1.2	1.6	2.7	1.4	3.9	3.1	1.8	1.8	4.1	4.0	2.0	2.2	4.7	3.2	6.2
RESPONSE: 11 AGE: 9 TEXT: 10 to the 4th power																				
Response did not occur at this age.																				
AGE: 13																				
DELTA-P	0.6	0.3	0.3	-0.2	-0.3	0.1	-0.1	0.6	-0.2	-0.7#	0.4	-0.3	0.2	0.7	-0.7#	-0.2	0.1	0.6	0.2	-0.4
STD ERR OF DP		0.4	0.4	0.3	0.2	0.2	0.2	0.5	0.1	0.2	0.6	0.2	0.2	1.0	0.2	0.2	0.5	0.6	0.5	0.3
STD ERR OF P	0.2	0.5	0.4	0.3	0.2	0.3	0.2	0.5	0.2	0.0	0.7	0.2	0.3	1.1	0.0	0.3	0.5	0.7	0.5	0.2

EXERCISE: RC09

10 x 10 x 10 x 10 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 11 AGE: 17	TEXT: 10 to the 4th power																			
DELTA-P	0.7	0.4	0.2	0.1	-0.7#	-0.2	0.2	0.5	-0.1	-0.5	-0.2	-0.1	0.3	-0.5	-0.3	0.6	-0.2	-0.7#	0.2	-0.7#
STD ERR OF DP		0.4	0.4	0.4	0.2	0.2	0.2	0.6	0.1	0.3	0.5	0.3	0.2	0.3	0.3	0.4	0.3	0.2	0.5	0.2
STD ERR OF P	0.2	0.5	0.4	0.6	0.0	0.3	0.3	0.7	0.2	0.2	0.5	0.4	0.3	0.2	0.3	0.6	0.3	0.0	0.5	0.0
RESPONSE: 20 AGE: 9	TEXT: 40; 400; 4000; 40,000																			
DELTA-P	34.4	1.4	-4.1	0.1	1.7	-4.8#	4.9#	8.5#	-1.9#	2.3	10.7	0.0	-2.8	6.7	6.4	0.5	-3.9	4.2	-6.5*	-4.2
STD ERR OF DP		2.2	2.2	1.9	1.7	1.2	1.2	3.0	0.6	4.2	6.0	1.7	1.5	4.0	4.4	1.9	3.4	2.9	2.8	4.3
STD ERR OF P	1.1	2.7	2.4	2.2	1.9	1.7	1.6	3.4	1.2	4.6	6.1	1.9	2.0	4.3	4.5	2.0	3.7	2.9	3.0	4.4
AGE: 13																				
DELTA-P	7.6	6.9#	-1.7	-2.0	-2.1	-0.1	0.1	11.1#	-2.3#	15.9#	2.2	-1.8*	-3.7#	7.4*	3.9	1.3	-1.9	-0.4	-4.2#	-4.6#
STD ERR OF DP		2.2	1.4	1.1	1.3	0.7	0.6	2.8	0.6	4.5	2.4	0.9	0.7	3.5	5.0	1.3	2.5	1.7	1.4	1.2
STD ERR OF P	0.8	2.7	1.6	1.0	1.4	1.2	0.9	3.0	0.8	5.1	2.5	1.0	0.7	3.7	5.3	1.6	2.7	1.7	1.3	1.0
AGE: 17																				
DELTA-P	4.5	0.7	-0.3	0.8	-1.2	-0.8*	0.9*	6.9#	-1.6#	5.8#	4.0#	-0.2	-2.6#	7.6#	0.0	-1.6#	-0.9	0.2	0.2	-2.0
STD ERR OF DP		0.9	0.6	0.7	0.7	0.4	0.4	1.5	0.3	1.8	1.2	0.6	0.4	2.5	1.1	0.5	0.9	1.5	1.3	1.2
STD ERR OF P	0.4	1.1	0.7	0.8	0.7	0.5	0.6	1.6	0.5	1.9	1.3	0.7	0.4	2.6	1.2	0.6	0.9	1.5	1.4	1.1
RESPONSE: 21 AGE: 9	TEXT: 200																			
DELTA-P	34.4	-4.6#	3.7	-1.4	2.9	3.1#	-3.2#	-13.2#	3.1#	-0.0	-5.7	-0.4	2.8	-10.8#	-5.2	1.2	-0.4	-0.6	7.2*	2.8
STD ERR OF DP		1.8	1.9	2.2	2.0	1.2	1.2	2.2	0.5	4.5	4.7	1.9	1.7	3.5	3.3	2.0	2.2	3.2	3.1	3.6
STD ERR OF P	1.2	1.8	2.0	2.7	2.4	1.6	1.7	2.0	1.3	5.0	5.0	2.2	1.9	3.8	3.4	2.4	2.3	3.4	3.3	3.7
AGE: 13																				
DELTA-P	5.7	3.6	0.6	-1.0	-2.7#	1.4#	-1.3#	6.2#	-1.2#	5.4*	3.4	-0.4	-2.4#	8.5#	0.6	0.4	-0.4	0.6	-3.0#	-4.4#
STD ERR OF DP		1.[illegible]	0.9	0.8	0.7	0.5	0.5	1.8	0.3	2.6	2.0	0.7	0.6	2.5	1.4	0.7	1.1	1.5	1.1	0.8
STD ERR OF P	[illegible]	1.8	1.0	0.8	0.7	0.8	0.7	2.0	0.5	2.8	2.1	0.8	0.6	2.6	1.5	1.0	1.1	1.5	1.0	0.7
AGE: 17																				
DELTA-P	[illegible]	[illegible]	-1.[illegible]*	-0.4	0.4	-0.5	0.5	8.5#	-1.6#	1.0	5.6#	-0.7	-2.0#	7.3#	3.6	-1.2*	-1.4	-0.4	-1.6	-2.1
STD ERR OF DP		[illegible]	[illegible]	0.6	1.0	0.4	0.5	1.8	0.3	1.7	1.9	0.6	0.5	2.3	2.3	0.6	1.0	1.3	1.0	1.3
STD ERR OF P	[illegible]	[illegible]	[illegible]	0.7	1.2	0.5	0.7	2.2	0.3	1.7	2.1	0.7	0.5	2.4	2.5	0.6	1.0	1.3	1.0	1.3
RESPONSE: 22 AGE: 9	[illegible] e number of zeros is not 4																			
DELTA-P	7.[illegible]	[illegible]	0.5	-0.2	-1.3	0.4	-0.4	1.8	-0.3	-0.1	-2.0	-0.9	0.2	-0.5	0.4	-1.9*	-0.0	0.1	2.1	2.5
STD ERR OF DP		1.5	1.1	0.9	0.9	0.7	0.7	2.2	0.5	2.1	2.2	1.1	1.1	1.8	2.9	0.9	1.7	1.9	1.7	2.2
STD ERR OF P	0.7	1.9	1.1	0.9	1.0	1.0	0.9	2.5	0.7	2.4	2.3	1.4	1.1	1.9	3.0	1.1	1.7	2.1	1.7	2.3
AGE: 13																				
DELTA-P	10.4	-1.1	0.3	0.8	-0.2	2.2#	-2.0#	4.0*	-0.5	-3.9	2.3	1.5	-1.7*	0.4	1.2	0.5	0.5	3.4	-3.6*	-2.1
STD ERR OF DP		1.5	1.2	1.2	1.4	0.7	0.7	1.9	0.4	2.4	2.5	0.9	0.8	1.8	2.7	1.0	1.9	2.3	1.5	1.6
STD ERR OF P	0.7	1.8	1.3	1.4	1.6	1.2	0.8	2.1	0.8	2.4	2.6	1.3	0.9	1.8	2.8	1.4	2.1	2.4	1.5	1.6
AGE: 17																				
DELTA-P	7.7	1.4	1.0	-1.9	-0.0	-0.8	0.9	3.8	-0.6	5.0*	1.7	-1.1	-1.7*	-0.5	2.7	0.0	-2.5	3.3	0.6	-3.3*
STD ERR OF DP		1.2	1.3	1.2	1.4	0.6	0.6	1.9	0.4	2.2	1.6	0.8	0.7	1.1	2.5	1.0	1.3	3.4	1.8	1.6
STD ERR OF P	0.7	1.2	1.5	1.5	1.6	0.8	1.1	2.2	0.8	2.3	1.7	1.0	1.0	1.1	2.6	1.1	1.1	3.7	2.1	1.6
RESPONSE: 23 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	14.0	2.4	-0.1	1.4	-3.6#	0.8	-0.9	5.5*	-1.5#	-0.3	1.3	2.1	-1.6	4.0	-0.3	0.2	2.5	-0.1	-2.5	-3.4
STD ERR OF DP		1.8	1.7	1.4	1.1	0.7	0.7	2.3	0.5	2.6	3.4	1.5	1.1	2.9	2.4	1.3	3.1	2.7	1.7	2.2
STD ERR OF P	0.9	2.2	1.9	1.6	1.1	1.2	1.0	2.6	0.8	2.9	3.7	1.8	1.2	3.0	2.6	1.6	3.4	2.9	1.8	2.1

EXERCISE: RC09

10 x 10 x 10 x 10 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 23 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	4.3	1.2	-0.4	-0.6	0.1	-0.6	0.6	6.5#	-1.4#	3.8	0.7	0.0	-1.7#	6.8#	0.1	-0.2	-0.7	1.1	-1.8	-2.4#
STD ERR OF DP		1.4	0.8	1.0	1.0	0.5	0.4	1.8	0.3	2.0	1.3	[illegible]	0.6	1.9	1.4	0.8	1.3	1.7	1.1	0.8
STD ERR OF P	0.6	1.7	0.8	1.2	1.2	0.7	0.8	2.1	0.5	2.3	1.3	0.9	0.6	2.0	1.3	1.1	1.4	2.0	1.2	0.7
AGE: 17																				
DELTA-P	3.1	-0.3	0.5	-0.3	0.0	-0.2	0.2	2.4*	-0.4	0.7	1.3	1.0	-1.5#	1.7	0.7	-0.6	0.2	-1.1	0.0	0.3
STD ERR OF DP		0.6	0.9	0.7	0.7	0.5	0.5	1.1	0.2	1.5	1.3	0.7	0.4	1.2	1.2	0.6	1.1	1.1	1.1	1.7
STD ERR OF P	0.4	0.6	1.1	0.8	[illegible]	0.7	0.6	1.1	0.5	1.6	1.3	0.9	0.5	1.4	1.1	0.7	1.1	1.1	1.2	1.9
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	3.9	-0.8	1.0	-0.2	0.3	-1.0*	1.1*	-1.0	0.2	-2.0*	[illegible]	-0.7	-0.6	2.5	-1.5	0.6	0.1	-2.1#	-0.9	0.9
STD ERR OF DP		0.8	0.8	0.8	0.8	0.5	0.5	1.1	[illegible]	1.0	0.7	0.8	0.7	2.6	1.0	0.8	1.2	0.8	1.2	1.5
STD ERR OF P	0.5	0.9	0.9	1.0	1.0	0.6	0.8	1.3	[illegible]	1.0	0.6	0.9	0.7	2.7	1.0	1.0	1.3	0.7	1.2	1.6
AGE: 13																				
DELTA-P	0.4	0.5	-0.2	0.1	-0.3#	0.3#	-0.3#	0.1	0.0	-0.4#	1.6	[illegible]	-0.2*	0.4	0.7	0.2	-0.4#	-0.4#	-0.4#	-0.1
STD ERR OF DP		0.3	0.2	0.2	0.1	0.1	0.1	0.3	0.0	0.1	[illegible]	0.1	0.1	0.4	0.6	0.2	0.1	0.1	0.1	0.2
STD ERR OF P	0.1	0.4	0.2	0.2	0.1	0.2	0.1	0.3	0.1	0.0	[illegible]	0.1	0.1	0.5	0.7	0.2	0.0	0.0	0.0	0.2
AGE: 17																				
DELTA-P	0.3	0.2	0.4#	-0.3#	-0.2*	[illegible]	0.1	0.8*	-0.1	-0.3#	1.3#	-0.1	-0.2#	0.2	-0.0	-0.1	-0.1	-0.3#	-0.2*	1.0#
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.3	0.1	0.1	0.3	0.3	0.1	0.2	0.1	0.1	0.3
STD ERR OF P	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.5	0.0	0.0	0.3	0.2	0.1	0.4	0.3	0.1	0.2	0.0	0.1	0.3

RC10
OBJ IV

Weathermen estimate that the amount of water in nine inches of snow is the same as one inch of rainfall. A certain Arctic island has an annual snowfall of 1,602 inches. Its annual snowfall is the same as an annual rainfall of how many inches?

ANSWER ____________________

SCORING GUIDE
RC10
C10062-234

00 = No Response

10 = 178; 178 inches

11 = Correct process with no answer or wrong answer: e.g., 1602/9; attempt to divide 1602 by 9

20 = 14418 (inches); attempt to multiply 1602 by 9

21 = 1611; 1593 (inches); attempt to add 1602 and 9 or to subtract 9 from 1602

22 = Other Unacceptable

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

Report #: RC10

NAEP #: C10062-234

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		04-08	09-18	05-30
National P-value:				
	RC10	30.80	52.64	58.03
Timing: (in seconds)				
	Stimulus:	19	18	19
	Response:	41	40	*
RC10	Exercise total:	60	58	*

*Time not limited by paced tape.

EXERCISE: RC10

The amount of water in 9 inches of snow equals 1 inch of rain. An Arctic island has an annual snowfall of 1,602 inches. Its annual snowfall equals how many inches of rainfall?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	2.1	0.4	-0.2	-0.6	0.5	0.1	-0.1	3.2#	-0.5#	-0.3	2.0	-0.8*	-0.3	0.9	1.0	-0.7	-0.4	0.6	0.8	-1.3
STD ERR OF DP		0.7	0.5	0.5	0.7	0.3	0.3	1.1	0.2	0.7	1.4	0.4	0.4	1.1	1.0	0.4	0.7	1.0	1.1	0.7
STD ERR OF P	0.3	0.8	0.6	0.5	0.8	0.5	0.4	1.2	0.3	0.7	1.5	0.4	0.6	1.1	1.1	0.4	0.7	1.0	1.2	0.7
AGE: 17																				
DELTA-P	2.3	0.9	0.2	-0.1	-0.7	0.1	-0.1	3.4*	-1.0#	1.0	0.4	0.4	-0.8#	4.0	-0.7	-0.6	-1.1#	3.1*	-0.5	-1.6*
STD ERR OF DP		0.5	0.5	0.7	0.6	0.3	0.3	1.5	0.3	1.0	0.7	0.5	0.3	2.2	0.5	0.5	0.4	1.5	0.9	0.7
STD ERR OF P	0.4	0.5	0.4	1.0	0.7	0.6	0.4	1.8	0.3	1.0	0.6	0.8	0.4	2.4	0.4	0.5	0.2	1.6	0.9	0.7
AGE: Ad																				
DELTA-P	1.5	2.0	-0.1	-1.4*	-0.1	-0.0	0.0	2.7	-0.4	1.5*	0.6	-0.7	-1.1	-0.8	6.3	-0.4	0.6	-0.9	-1.2*	-1.3*
STD ERR OF DP		1.8	0.9	0.6	0.7	0.5	0.4	1.6	0.3	0.7	1.0	0.6	0.6	0.7	5.7	0.8	1.6	0.8	0.6	0.6
STD ERR OF P	0.6	2.2	0.9	0.1	0.6	0.9	0.5	1.8	0.6	1.1	1.5	0.4	0.3	0.5	6.1	0.6	1.8	0.6	0.2	0.2
RESPONSE: 10* AGE: 13 TEXT: 178; 178 inches (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	30.8	-1.9	-10.0#	5.7#	5.4*	0.4	-0.4	-19.3#	5.0#	-14.2#	-10.0#	-0.7	13.4#	-18.8#	2.1	3.5	-4.6	3.2	-5.1	16.2#
STD ERR OF DP		2.2	2.3	2.1	2.3	0.9	0.9	2.4	0.7	3.0	2.4	2.1	1.5	2.7	4.2	1.9	2.6	5.0	2.9	3.8
P-VALUE	30.8	28.9	20.8	36.5	36.2	31.2	30.4	11.5	35.8	16.6	20.8	30.1	44.2	12.0	32.9	34.3	26.3	34.0	25.7	47.0
STD ERR OF P	1.3	2.3	2.7	2.5	2.6	1.7	1.5	2.0	1.3	3.1	2.5	2.3	2.1	2.4	4.5	2.2	2.7	5.2	3.0	4.0
AGE: 17																				
DELTA-P	52.6	0.9	-4.6	-5.7*	9.5#	2.3	-2.2	-26.7#	5.7#	-14.0#	-14.2#	-5.2#	12.1#	-21.0#	5.4	0.9	0.9	-5.4	-0.2	13.4#
STD ERR OF DP		2.5	2.5	2.6	2.1	1.2	1.1	2.5	0.8	3.5	2.6	2.0	1.3	4.2	3.8	1.9	3.5	4.3	3.5	3.9
P-VALUE	52.6	53.5	48.0	47.0	62.1	55.0	50.5	26.0	58.3	38.3	38.5	47.4	64.8	31.7	58.0	53.6	53.5	47.2	52.5	66.0
STD ERR OF P	1.4	2.8	2.8	3.3	2.3	1.8	1.8	2.8	1.5	3.5	2.9	2.6	1.7	4.4	4.1	2.3	3.7	4.8	3.5	4.2
AGE: Ad																				
DELTA-P	58.0	-3.2	-1.0	1.7	1.8	5.0#	-4.6#	-38.8#	5.8#	-11.5#	-6.9*	4.4*	12.0#	-19.6#	-3.4	0.5	4.1	-0.5	-4.3	14.7#
STD ERR OF DP		3.5	2.4	2.4	2.5	1.2	1.1	2.5	0.8	2.2	3.0	1.9	2.1	3.8	4.6	2.1	5.0	5.1	3.8	4.7
P-VALUE	58.0	54.9	57.0	59.8	59.8	63.0	53.4	19.3	63.9	46.6	51.2	62.4	70.0	38.5	54.6	58.6	62.1	57.5	53.7	72.7
STD ERR OF P	1.5	4.2	2.6	2.7	2.9	2.0	1.8	2.4	1.4	2.8	3.1	2.3	2.4	3.7	4.9	2.5	5.5	5.3	3.9	4.9
RESPONSE: 11 AGE: 13 TEXT: Correct process with no answer or wrong answer; e.g., 1602/9; attempt to divide 1602 by 9																				
DELTA-P	13.8	-4.5#	-2.9	0.8	5.7#	-0.1	0.1	-9.6#	2.0#	-4.8*	1.3	2.6*	0.5	-9.1#	-5.4#	1.7	-1.3	2.1	3.0	5.2
STD ERR OF DP		1.2	1.7	1.7	1.7	0.6	0.6	1.3	0.4	2.2	2.4	1.2	1.1	1.4	1.7	1.4	2.2	3.0	2.5	4.0
STD ERR OF P	1.0	1.0	2.0	2.1	2.0	1.2	1.1	1.2	1.1	2.1	2.7	1.7	1.3	1.2	1.6	1.7	2.0	3.2	2.9	4.2
AGE: 17																				
DELTA-P	18.9	-4.1#	1.9	3.5#	-2.1	1.2	-1.1	-3.8	0.8	-4.0	-3.2	4.0#	-0.4	-4.3	-1.9	3.1#	-0.3	0.5	-0.9	-2.2
STD ERR OF DP		1.5	1.4	1.2	1.3	0.9	0.8	2.2	0.4	2.8	2.0	1.4	0.8	2.2	1.9	1.2	1.8	3.6	2.2	2.2
STD ERR OF P	0.8	1.7	1.6	1.4	1.6	1.2	1.1	2.4	0.9	2.9	2.1	1.7	1.1	2.2	1.7	1.4	1.8	3.9	2.4	2.5
AGE: Ad																				
DELTA-P	14.7	-5.0#	3.2*	3.3*	-2.6	-0.0	0.0	-4.3	1.2#	-3.2#	1.7	0.5	1.8	-3.9	2.1	-0.0	-2.1	1.5	3.5	-0.5
STD ERR OF DP		1.3	1.3	1.6	1.3	1.0	0.9	2.4	0.4	1.2	2.3	1.3	1.5	3.1	3.7	1.0	2.8	2.9	2.7	3.4
STD ERR OF P	0.8	1.3	1.5	2.1	1.5	1.2	1.3	2.8	0.9	1.4	2.4	1.7	1.7	3.2	3.8	1.1	3.1	2.9	2.8	3.6
RESPONSE: 20 AGE: 13 TEXT: 14418 (inches); attempt to multiply 1602 by 9																				
DELTA-P	5.1	0.9	-1.7	-0.3	1.3	-0.9	0.9	-2.4*	0.7#	-0.2	-2.0	0.3	0.5	-0.5	-0.7	0.5	-1.3	0.2	0.3	1.1
STD ERR OF DP		1.5	0.9	0.9	0.9	0.5	0.5	1.0	0.2	1.6	1.1	0.8	0.6	1.6	1.6	0.9	1.0	1.6	1.1	1.6
STD ERR OF P	0.6	1.8	0.9	1.0	1.0	0.6	0.9	1.0	0.7	1.8	1.2	1.0	0.9	1.6	1.8	1.2	1.0	1.6	1.1	1.7
AGE: 17																				
DELTA-P	5.3	0.1	-1.6	1.1	0.1	0.4	-0.4	-0.1	0.1	0.7	1.4	0.2	-0.8	-1.1	-2.0	0.1	-2.5*	1.5	3.2	-0.4
STD ERR OF DP		1.3	1.0	0.9	1.1	0.5	0.5	1.1	0.2	2.0	1.5	0.8	0.7	1.7	1.4	0.8	1.2	2.1	1.7	1.5
STD ERR OF P	0.6	1.5	1.0	1.1	1.3	0.8	0.8	1.4	0.6	2.2	[illegible]	0.9	0.8	1.9	1.3	0.9	1.2	2.2	1.9	1.6

EXERCISE: RC10

The amount of water in 9 inches of snow equals 1 inch of rain. An Arctic island has an annual snowfall of 1,602 inches. Its annual snowfall equals how many inches of rainfall?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad TEXT: 14418 (inches); attempt to multiply 1602 by 9																				
DELTA-P	3.5	-0.4	-0.3	-0.3	0.9	0.1	-0.1	0.4	0.1	-1.3	0.8	0.5	0.4	-0.7	-1.3	0.5	-0.9	1.4	-0.5	0.2
STD ERR OF DP		0.9	0.8	0.7	1.2	0.5	0.5	4.3	0.2	0.7	1.2	0.8	0.9	1.7	1.9	0.6	0.9	2.0	1.6	1.8
STD ERR OF P	0.5	1.0	0.9	0.8	1.5	0.8	0.6	1.5	0.6	0.7	1.4	1.0	1.1	1.8	2.0	0.7	0.8	2.1	1.7	2.0
RESPONSE: 21 AGE: 13 TEXT: 1611; 1593 (inches); attempt to add 1602 and 9 or to subtract 9 from 1602																				
DELTA-P	1.3	0.8	0.3	-0.2	-0.7*	-0.2	0.2	0.9	-0.4	0.2	0.7	0.0	-0.5	0.2	0.3	-0.3	1.0	-1.0*	0.0	0.2
STD ERR OF DP		0.5	0.5	0.4	0.3	0.2	0.2	0.8	0.2	1.1	1.0	0.4	0.4	0.6	0.9	0.3	0.6	0.3	0.7	1.0
STD ERR OF P	0.2	0.5	0.7	0.4	0.2	0.3	0.3	0.8	0.2	1.2	1.1	0.5	0.4	0.6	1.0	0.4	0.7	0.3	0.7	1.0
AGE: 17																				
DELTA-P	0.2	-0.2	0.2	-0.0	-0.0	-0.1	0.1	0.5	-0.1	-0.1	0.0	0.3	-0.1	0.6	-0.2	-0.1	-0.2	-0.2	-0.2	0.3
STD ERR OF DP		0.1	0.3	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.2	0.2	0.1	0.7	0.1	0.1	0.1	0.1	0.1	0.4
STD ERR OF P	0.1	0.0	0.3	0.2	0.1	0.1	0.2	0.6	0.1	0.1	0.2	0.3	0.0	0.8	0.0	0.1	0.0	0.0	0.0	0.4
AGE: Ad																				
DELTA-P	0.0	0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.3	-0.0	-0.0	0.2	-0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	23.8	4.7	5.7*	-2.9	-6.4*	0.7	-0.8	17.6*	-3.7*	11.9*	4.1	-1.8	-4.9*	8.6	2.7	-3.3*	5.9	-0.3	0.7	-11.4*
STD ERR OF DP		2.5	2.5	1.9	1.9	0.9	1.0	2.9	0.8	2.9	4.3	1.5	1.6	4.3	3.4	1.6	3.4	4.4	3.6	3.5
STD ERR OF P	1.3	2.9	3.1	2.0	2.1	1.6	1.6	2.7	1.4	3.2	4.7	1.9	1.9	4.6	3.6	1.9	3.6	4.7	3.8	3.6
AGE: 17																				
DELTA-P	9.8	0.6	2.0	1.1	-3.5*	-0.8	0.8	11.1*	-2.3*	2.8	8.0*	0.4	-4.3*	12.7*	3.7	-1.8	2.0	-0.9	-1.6	-6.7*
STD ERR OF DP		1.4	1.5	1.4	1.3	0.7	0.7	2.2	0.5	2.2	2.9	1.0	0.8	3.0	3.2	1.0	2.3	2.2	2.0	1.3
STD ERR OF P	0.8	1.6	1.7	1.7	1.5	1.1	1.0	2.5	0.8	2.3	3.3	1.2	0.8	3.3	3.3	0.9	2.5	2.5	2.0	1.2
AGE: Ad																				
DELTA-P	7.0	-0.9	0.7	-1.2	1.4	-0.5	0.5	9.2*	-1.5*	0.8	2.7	-0.2	-1.9	5.6*	-2.6	-0.7	0.9	0.1	1.9	-2.8
STD ERR OF DP		1.2	1.4	1.0	1.3	0.8	0.7	3.1	0.5	1.2	2.2	1.3	1.1	2.4	1.3	0.9	2.2	2.7	2.0	1.6
STD ERR OF P	0.7	1.2	1.8	1.1	1.6	1.2	0.8	3.4	0.6	1.2	2.1	1.7	1.4	2.6	1.2	1.2	2.5	2.9	2.2	1.5
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	23.1	-0.4	8.7*	-2.4	-5.7*	-0.1	0.1	9.5*	-3.2*	7.5*	3.9	0.3	-8.8*	18.7*	0.1	-1.3	0.6	-4.9	0.4	-10.1*
STD ERR OF DP		2.0	2.4	1.9	2.0	0.8	0.8	2.6	0.6	2.7	3.2	1.4	1.1	5.0	3.5	1.6	3.1	3.4	2.8	2.2
STD ERR OF P	1.2	2.2	3.0	2.2	2.2	1.4	1.5	2.9	1.1	3.1	3.4	1.8	1.3	5.3	3.7	1.7	3.3	3.5	3.2	2.0
AGE: 17																				
DELTA-P	10.8	1.7	2.0	0.1	-3.3*	-3.0*	2.8*	15.4*	-3.3*	14.1*	7.6*	-0.1	-5.7*	9.1*	-4.4*	-1.6	1.3	1.4	0.2	-2.8
STD ERR OF DP		1.4	1.6	1.2	1.3	0.8	0.7	2.8	0.5	2.7	2.5	1.2	0.8	3.1	2.1	1.0	2.0	3.0	3.0	2.0
STD ERR OF P	0.8	1.5	1.9	1.3	1.5	0.8	1.3	3.1	0.8	2.7	2.8	1.6	0.7	3.2	2.1	1.1	2.1	3.2	3.3	2.0
AGE: Ad																				
DELTA-P	15.3	7.4*	-2.5	-2.1	-1.4	-4.5*	4.2*	30.5*	-5.2*	13.7*	0.9	-4.4*	-11.2*	19.3*	-1.0	0.0	-2.6	-1.4	0.6	-10.3*
STD ERR OF DP		2.7	2.2	2.0	1.7	0.8	0.7	3.6	0.8	1.8	2.2	1.2	1.3	4.0	3.0	1.5	2.5	3.1	2.7	1.9
STD ERR OF P	1.2	3.1	2.6	2.4	1.8	1.2	1.6	3.9	0.9	2.5	2.3	1.5	1.0	4.2	3.2	2.0	2.4	3.5	3.0	1.9

RC11
OBJ IV

Marie took four spelling tests. Each test had 30 words. On the four tests she spelled correctly the following numbers of words:

25, 23, 27, and 24.

Altogether, how many words did she MISS on all four tests?

ANSWER ____________________

Report #: RC11

NAEP #: C10074-12

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		02-13	03-03
National P-value:			
	RC11	16.00	60.03

Timing: (in seconds)

	Stimulus:	20	20
	Response:	60	40
RC11	Exercise total:	80	60

SCORING GUIDE
RC11
C10074-12

00 = No Response

10 = 21; 21 words

11 = Correct process with no answer or wrong answer; e.g., subtracts each from 30, then adds 5, 7, 3, and 6

12 = Correct process with no answer or wrong answer; e.g., adds 25, 23, 27, and 26, then subtracts from 120

20 = 99; 99 words; any attempt to add 25, 23, 27, and 26

21 = 4; 4 words

22 = Other Unacceptable

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

EXERCISE: RC11

Marie took 4 spelling tests. Each test had 30 words. On the 4 tests she spelled correctly 25, 23, 27 and 24 words. Altogether, how many words did she MISS on all 4 tests?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.8	1.2*	-0.2	-0.7	-0.3	0.1	-0.1	0.6	-0.2	1.9	0.6	0.3	-0.9	1.1	0.3	-0.9#	0.6	1.3	-0.4	0.3
STD ERR OF DP		0.5	0.5	0.4	0.5	0.3	0.3	0.8	0.2	1.7	1.6	0.5	0.5	1.0	0.9	0.4	0.8	1.5	0.6	1.0
STD ERR OF P	0.3	0.6	0.5	0.5	0.6	0.4	0.4	0.8	0.3	1.7	1.6	0.6	0.4	1.1	0.9	0.4	0.9	1.6	0.6	1.1
AGE: 13																				
DELTA-P	1.6	1.8*	0.3	-0.8*	-1.0#	-0.0	0.0	4.6#	-0.8#	1.2	0.7	-0.3	-1.2#	4.7#	-0.0	-0.3	0.1	-0.8	-0.5	-1.3#
STD ERR OF DP		0.8	0.5	0.3	0.3	0.3	0.3	1.4	0.2	1.3	1.0	0.4	0.3	1.2	1.0	0.4	0.6	0.5	0.6	0.4
STD ERR OF P	0.3	1.0	0.5	0.3	0.2	0.3	0.4	1.6	0.2	1.4	1.1	0.4	0.2	1.2	1.1	0.5	0.5	0.5	0.6	0.3
RESPONSE: 10* AGE: 9 TEXT: 21 words; 21 (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	16.0	-4.3*	-1.3	-1.3	6.3#	1.0	-1.0	-12.2#	2.1#	-8.1*	-2.9	0.1	6.3#	-11.9#	-6.2#	1.5	-2.2	-0.6	0.7	12.8#
STD ERR OF DP		2.2	2.2	1.8	1.8	1.1	1.1	1.3	0.4	3.4	4.1	1.7	1.5	1.8	2.0	1.6	2.8	3.7	2.2	2.7
P-VALUE	16.0	11.7	14.7	14.7	22.3	17.0	15.0	3.8	18.1	7.9	13.1	16.1	22.3	4.1	9.8	17.5	13.8	15.4	16.7	28.8
STD ERR OF P	1.1	2.4	2.6	2.0	2.1	1.6	1.5	1.0	1.2	3.7	4.3	2.1	1.9	1.6	1.9	2.1	2.9	3.9	2.4	2.8
AGE: 13																				
DELTA-P	60.0	-9.7#	-5.5*	4.3	9.5#	-0.3	0.3	-32.6#	6.8#	-20.7#	-14.1#	1.2	11.7#	-29.9#	-7.8	0.5	6.8	-2.8	4.8	14.2#
STD ERR OF DP		3.5	2.7	2.6	3.4	1.2	1.1	3.6	1.0	4.3	3.5	1.6	1.4	5.2	5.7	2.3	3.6	4.2	3.1	3.5
P-VALUE	60.0	50.4	54.6	64.4	69.5	59.7	60.3	27.4	66.8	39.3	45.9	61.2	71.7	30.1	52.2	60.5	66.9	57.3	64.9	74.2
STD ERR OF P	1.8	4.1	2.9	2.9	4.2	1.9	2.3	3.5	1.7	4.6	3.7	2.1	2.0	5.3	6.1	2.9	3.9	4.3	3.0	3.4
RESPONSE: 11 AGE: 9 TEXT: Correct process with no answer or wrong answer; e.g., subtracts each from 30, then adds 5, 7, 3, and 6																				
DELTA-P	3.1	0.0	1.2	-0.4	-0.7	0.5	-0.5	-1.0	0.0	1.4	0.7	-0.4	-0.1	1.1	-0.1	0.7	2.6*	-1.0	-1.7	-2.7#
STD ERR OF DP		0.6	1.2	0.8	0.7	0.4	0.4	0.7	0.1	2.2	1.8	0.7	0.7	1.6	1.3	0.6	1.2	1.2	0.9	0.5
STD ERR OF P	0.5	0.6	1.4	0.9	0.7	0.6	0.7	0.6	0.5	2.3	1.9	0.7	0.8	1.7	1.4	0.8	1.4	1.1	0.8	0.3
AGE: 13																				
DELTA-P	2.6	-0.6	-1.0	0.9	0.5	0.0	-0.0	0.7	0.1	0.3	-0.3	0.1	-0.4	-0.6	1.9	-0.7	-0.7	1.8	0.7	-0.4
STD ERR OF DP		0.6	0.6	0.6	0.6	0.3	0.3	0.8	0.1	1.4	1.2	0.5	0.4	0.7	1.4	0.5	0.8	1.1	1.0	0.7
STD ERR OF P	0.3	0.6	0.6	0.7	0.7	0.5	0.5	0.9	0.4	1.5	1.1	0.7	0.5	0.8	1.4	0.6	0.8	1.2	1.1	0.7
RESPONSE: 12 AGE: 9 TEXT: Correct process with no answer or wrong answer; e.g., adds 25, 23, 27, and 26, then subtracts from 120																				
DELTA-P	0.4	-0.2	-0.2	-0.2	0.5	-0.1	0.1	-0.4#	0.1#	-0.4#	1.0	0.3	-0.2	-0.1	-0.2	-0.1	0.1	-0.4#	0.3	0.2
STD ERR OF DP		0.2	0.2	0.2	0.4	0.1	0.1	0.1	0.0	0.1	0.9	0.2	0.2	0.3	0.2	0.2	0.3	0.1	0.6	0.3
STD ERR OF P	0.1	0.1	0.1	0.2	0.5	0.1	0.2	0.0	0.2	0.0	1.0	0.3	0.1	0.3	0.1	0.2	0.4	0.0	0.7	0.4
AGE: 13																				
DELTA-P	2.9	-0.6	1.0	0.1	-0.6	-0.2	0.2	-2.5#	0.4#	1.0	-0.5	-0.3	0.4	-1.2	-0.9	-0.6	1.8	-1.4	0.5	2.0
STD ERR OF DP		0.7	0.7	0.9	0.8	0.4	0.4	0.5	0.2	1.6	1.0	0.6	0.5	0.7	0.9	0.6	1.3	0.9	1.1	1.4
STD ERR OF P	0.5	0.7	0.8	1.2	0.9	0.6	0.6	0.3	0.6	1.7	1.1	0.6	0.9	0.8	0.9	0.7	1.4	1.0	1.2	1.6
RESPONSE: 20 AGE: 9 TEXT: 99 words; 99; any attempt to add 25, 23, 27 and 26																				
DELTA-P	8.5	-0.7	-1.6	2.2	-0.2	-0.2	0.2	-0.5	0.4	1.4	-2.2	-0.3	0.4	-1.7	1.2	0.5	-4.0#	4.6	2.0	-1.7
STD ERR OF DP		1.2	1.4	1.9	1.3	0.5	0.5	2.0	0.4	2.6	2.3	1.0	1.1	1.9	2.8	1.3	1.3	4.9	1.9	1.9
STD ERR OF P	0.9	1.1	1.5	2.4	1.5	1.0	1.0	2.1	1.0	2.5	2.1	1.3	1.6	1.9	3.1	1.4	1.1	5.2	2.2	2.0
AGE: 13																				
DELTA-P	10.2	5.0*	3.1*	-3.5*	-3.8*	1.3	-1.2	8.4#	-2.0#	10.5#	3.7	0.1	-4.4#	3.1	6.1	1.0	-2.8	2.2	0.1	-7.6#
STD ERR OF DP		2.3	1.6	1.6	1.6	0.7	0.7	2.6	0.5	3.5	2.7	1.1	0.9	3.2	3.4	1.3	1.9	2.4	2.7	1.2
STD ERR OF P	1.0	2.7	1.8	1.8	1.8	1.4	1.1	2.9	1.0	4.0	3.3	1.2	1.0	3.2	3.8	1.7	1.9	2.7	2.9	0.9
RESPONSE: 21 AGE: 9 TEXT: 4 words; 4																				
DELTA-P	2.4	1.1	-0.5	-0.1	-0.5	0.0	0.0	-0.4	0.0	-0.8	1.2	0.7	-0.9	-1.3*	-0.3	0.9	-0.2	-0.4	-0.7	0.2
STD ERR OF DP		1.0	0.6	0.7	0.6	0.3	0.3	0.6	0.2	1.2	1.7	0.6	0.5	0.6	1.2	0.8	1.3	1.4	0.8	1.1
STD ERR OF P	0.4	1.2	0.6	0.9	0.6	0.5	0.6	0.6	0.5	1.4	1.7	0.9	0.5	0.5	1.3	1.0	1.3	1.4	0.8	1.1

EXERCISE: RC11

Marie took 4 spelling tests. Each test had 30 words. On the 4 tests she spelled correctly 25, 23, 27 and 24 words. Altogether, how many words did she MISS on all 4 tests?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: 13 TEXT: 4 words; 4																				
DELTA-P	0.8	0.0	-0.4	0.1	0.2	0.2	-0.2	1.0	-0.2	0.2	-0.2	0.4	-0.3	0.1	0.4	-0.3	0.0	-0.8#	1.2	-0.0
STD ERR OF DP		0.4	0.3	0.3	0.3	0.2	0.2	0.8	0.1	0.7	0.6	0.3	0.2	0.5	0.6	0.2	0.5	0.2	0.8	0.5
STD ERR OF P	0.2	0.4	0.3	0.4	0.4	0.3	0.2	0.8	0.2	0.7	0.6	0.4	0.2	0.6	0.7	0.3	0.5	0.0	0.9	0.5
RESPONSE: 22 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	50.2	3.7	-1.6	2.6	-4.5*	1.7	-1.6	19.0#	-3.2#	1.7	3.8	0.7	-2.1	15.8#	1.7	-2.5	-0.6	5.9	-1.6	-8.7#
STD ERR OF DP		2.5	3.5	2.6	2.2	1.4	1.4	2.8	0.8	5.4	5.3	2.2	1.7	4.2	6.1	1.9	4.0	5.5	3.5	3.2
STD ERR OF P	1.6	2.7	4.3	3.1	2.5	2.2	2.0	3.0	1.6	6.0	5.2	2.7	2.5	4.3	6.9	1.9	4.4	5.8	3.7	3.3
AGE: 13																				
DELTA-P	17.6	3.2	2.1	-0.9	-4.1*	-1.6	1.5	15.1#	-3.3#	6.0	6.7	0.1	-4.7#	16.7#	1.1	-0.4	-4.6	1.3	-4.2	-3.2
STD ERR OF DP		1.7	2.0	1.8	1.8	1.1	1.0	2.9	0.7	4.2	4.1	1.4	1.2	3.7	3.2	1.5	2.7	3.6	3.4	2.4
STD ERR OF P	1.0	1.7	2.4	2.1	2.1	1.5	1.5	3.2	1.0	4.4	4.5	1.8	1.2	3.8	3.2	1.8	2.7	3.7	3.7	2.4
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	17.7	-0.8	4.1	-2.2	-0.6	-2.9#	2.8#	-5.1*	0.8	2.7	-2.3	-1.5	-2.5	-3.0	3.8	-0.2	3.4	-9.4#	1.4	-0.4
STD ERR OF DP		2.3	3.7	2.5	2.0	1.0	0.9	2.4	0.5	5.4	3.8	1.8	1.5	2.9	6.1	1.9	3.5	3.2	3.4	2.8
STD ERR OF P	1.5	2.4	4.7	2.8	1.9	1.6	1.9	2.2	1.6	6.3	3.7	2.3	1.6	2.7	7.0	2.0	4.1	2.9	3.7	2.9
AGE: 13																				
DELTA-P	4.2	0.9	0.3	-0.4	-0.7	0.7	-0.6	5.4#	-1.0#	1.5	3.9*	-1.4*	-1.1*	7.2#	-0.7	0.8	-0.7	0.4	-2.5#	-3.7#
STD ERR OF DP		1.0	0.8	0.9	0.9	0.5	0.4	1.4	0.3	1.8	1.9	0.7	0.5	1.7	1.2	0.6	1.2	1.3	0.7	0.7
STD ERR OF P	0.5	1.1	0.9	1.1	1.1	0.8	0.6	1.7	0.6	1.9	2.2	0.6	0.7	1.9	1.3	0.9	1.4	1.4	0.5	0.5

RC12
OBJ IV

A sports car owner says that he gets 22 miles per gallon of gasoline. How many miles could he go on seven gallons of gasoline?

ANSWER ______________________

Report #: RC12

NAEP #: C10075-34

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:		17	Adult
Package-Exercise:		03-16	01-17
National P-value:			
	RC12	88.96	90.43
Timing: (in seconds)			
	Stimulus:	9	9
	Response:	21	*
RC12	Exercise total:	30	*

*Time not limited by paced tape.

SCORING GUIDE
RC12
C10075-34

00 = No Response

10 = 154; 154 miles; "about 154"

11 = Correct process with no answer or wrong answer; e.g., 22 x 7, 144

20 = 3.1; 3.14; 3.143 (miles); 3 1/7; 22/7

21 = Other Unacceptable; e.g., 29

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

EXERCISE: BC12

A sports car owner says that he gets 22 miles per gallon of gasoline. How many miles could he go on seven gallons of gasoline?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME PS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.5	-0.1	-0.1	0.1	0.2	-0.3	0.2	0.5	-0.1	-0.5#	-0.5#	-0.3#	-0.1	0.9	-0.2	0.2	-0.4	0.5	-0.2	-0.5#
STD ERR OF DP		0.2	0.3	0.2	0.3	0.2	0.2	0.6	0.1	0.2	0.2	0.2	0.2	1.0	0.3	0.3	0.2	0.5	0.2	0.2
STD ERR OF P	0.2	0.2	0.3	0.2	0.4	0.1	0.3	0.6	0.2	0.0	0.0	0.1	0.2	1.1	0.3	0.4	0.1	0.5	0.2	0.0
AGE: Ad																				
DELTA-P	0.2	-0.2	-0.2	0.3	0.0	0.1	-0.1	-0.2	0.0	0.0	0.5	-0.1	-0.2	0.4	-0.2	0.1	0.1	-0.2	-0.2	-0.2
STD ERR OF DP		0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.0	0.2	0.5	0.1	0.1	0.5	0.1	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.4	0.2	0.2	0.1	0.0	0.1	0.2	0.6	0.1	0.0	0.5	0.0	0.3	0.2	0.0	0.0	0.0
RESPONSE: 10* AGE: 17 TEXT: 154; 154 miles; "about 154" (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	89.0	-5.2#	0.9	-1.1	4.9#	2.9#	-2.8#	-22.8#	4.0#	-7.2*	-3.7	0.7	4.2#	-10.2*	-6.9*	2.5	-0.7	-4.7	3.6	6.0#
STD ERR OF DP		1.8	1.4	1.5	1.2	0.8	0.8	2.7	0.7	3.1	2.0	1.2	1.0	4.7	2.9	1.3	2.3	3.2	1.9	1.5
P-VALUE	89.0	83.7	89.8	87.9	93.9	91.8	86.2	66.1	93.0	81.8	85.5	89.7	93.2	78.8	82.1	91.4	88.3	84.3	92.6	95.0
STD ERR OF P	0.9	2.0	1.3	1.9	1.3	1.1	1.3	3.1	0.7	3.4	2.2	1.3	1.3	5.0	3.1	1.5	2.4	3.3	1.8	1.4
AGE: Ad																				
DELTA-P	90.4	-0.5	-0.8	-0.4	1.8	4.6#	-4.3#	-11.0#	1.9#	-2.6	-2.1	1.9	4.3#	-6.0*	-0.3	-0.5	-2.8	6.0#	1.5	3.4
STD ERR OF DP		1.7	1.5	1.7	1.6	1.0	0.8	3.5	0.6	1.6	2.3	1.3	1.2	3.0	1.9	1.0	2.6	2.1	2.3	1.9
P-VALUE	90.4	90.0	89.6	90.0	92.3	95.1	86.1	79.4	92.3	87.8	88.4	92.3	94.7	84.4	90.2	89.9	87.7	96.4	91.9	93.8
STD ERR OF P	0.9	1.9	1.6	2.1	1.8	0.9	1.6	3.8	0.8	2.0	2.6	1.4	1.1	3.1	2.0	1.6	2.9	2.0	2.3	1.9
RESPONSE: 11 AGE: 17 TEXT: Correct process with no answer or wrong answer; e.g., 22 x 7; 144																				
DELTA-P	1.3	0.1	-0.3	0.1	0.2	0.1	-0.1	0.7	-0.1	-0.5	-0.4	0.1	-0.1	1.5	-0.4	0.2	-0.1	-0.6	0.3	-1.1#
STD ERR OF DP		0.5	0.4	0.4	0.5	0.3	0.3	0.8	0.1	0.7	0.5	0.4	0.3	1.4	0.5	0.5	0.6	0.7	0.7	0.3
STD ERR OF P	0.3	0.5	0.3	0.5	0.7	0.4	0.3	0.9	0.3	0.7	0.6	0.5	0.4	1.5	0.4	0.6	0.6	0.7	0.8	0.2
AGE: Ad																				
DELTA-P	1.0	0.2	-0.3	0.4	-0.3	-0.4	0.4	-0.3	0.1	-0.5	1.3	-0.1	-0.3	0.2	0.5	0.4	0.3	-1.0#	-1.0#	-0.4
STD ERR OF DP		0.5	0.4	0.5	0.4	0.3	0.3	0.4	0.1	0.4	0.8	0.4	0.4	0.6	0.7	0.3	0.8	0.3	0.3	0.6
STD ERR OF P	0.2	0.5	0.4	0.6	0.4	0.3	0.4	0.4	0.3	0.4	0.9	0.4	0.5	0.6	0.8	0.5	0.8	0.0	0.0	0.6
RESPONSE: 20 AGE: 17 TEXT: 3.1; 3.14; 3.143 (miles); 3 1/7; 22/7																				
DELTA-P	1.2	0.6	0.3	-0.3	-0.4	-1.0#	1.0#	2.1#	-0.4#	0.8	-0.0	0.2	-0.4	2.1*	0.6	0.1	-0.7*	0.3	-0.5	-0.9#
STD ERR OF DP		0.4	0.4	0.3	0.3	0.2	0.2	0.8	0.1	0.9	0.6	0.3	0.3	0.9	0.6	0.3	0.3	0.9	0.4	0.3
STD ERR OF P	0.2	0.4	0.5	0.4	0.3	0.1	0.4	0.9	0.2	1.0	0.6	0.4	0.3	1.0	[illegible]	0.3	0.3	1.0	0.4	0.3
AGE: Ad																				
DELTA-P	1.2	-0.3	0.3	0.4	-0.5	-0.7*	0.6*	0.4	-0.0	-0.5	-0.5	1.0	-0.7	-0.1	-0.8	0.2	-0.2	-1.3#	1.5	-0.4
STD ERR OF DP		0.4	0.7	0.6	0.4	0.3	0.3	0.8	0.1	0.4	0.6	0.6	0.4	0.7	0.6	0.4	0.6	0.3	1.6	0.7
STD ERR OF P	0.3	0.3	0.8	0.8	0.4	0.3	0.6	0.9	0.3	0.3	0.5	0.9	0.4	0.7	0.5	0.4	0.7	0.0	1.8	0.7
RESPONSE: 21 AGE: 17 TEXT: Other Unacceptable; e.g., 29																				
DELTA-P	6.1	3.2#	-0.1	1.5	-4.4#	-1.1	1.1	16.5#	-2.9#	4.8	3.0	-0.6	-2.4#	5.9	6.2#	-1.8*	1.2	1.0	-3.8#	-2.1
STD ERR OF DP		1.2	1.1	1.3	0.7	0.8	0.7	2.4	0.5	2.4	1.6	0.9	0.7	3.8	2.3	0.9	2.0	1.7	1.3	1.4
STD ERR OF P	0.7	1.3	1.0	1.7	0.6	0.9	1.1	2.7	0.5	2.5	1.7	1.1	1.0	4.1	2.4	1.0	2.1	1.8	1.4	1.3
AGE: Ad																				
DELTA-P	4.6	-1.0	1.0	-0.5	0.4	-1.7*	1.6*	4.1*	-0.9*	2.3	0.6	-1.0	-1.8*	0.9	0.9	-0.3	3.5	-3.1#	-0.7	-0.8
STD ERR OF DP		0.9	1.0	0.9	1.3	0.7	0.7	2.0	0.4	1.4	2.1	0.9	0.9	1.7	1.7	0.7	2.6	1.0	1.8	1.8
STD ERR OF P	0.6	0.9	1.1	1.1	1.5	0.7	1.1	2.2	0.5	1.6	2.3	0.8	0.8	1.8	1.7	0.9	2.9	0.9	1.8	1.9
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	1.9	1.5	-0.6	-0.3	-0.4	-0.5	0.5	3.1	-0.6*	2.5	1.5	-0.1	-1.2#	-0.3	0.7	-1.1#	0.6	3.6	0.2	-1.4#
STD ERR OF DP		0.9	0.4	0.5	0.6	0.4	0.4	1.7	0.2	1.8	1.2	0.5	0.4	0.8	1.4	0.4	0.7	2.5	0.8	0.5
STD ERR OF P	0.4	1.1	0.4	0.6	0.7	0.5	0.5	2.0	0.3	2.0	1.4	0.6	0.3	0.9	1.5	0.3	0.7	2.7	0.8	0.3

EXERCISE: RC12

A sports car owner says that he gets 22 miles per gallon of gasoline. How many miles could he go on seven gallons of gasoline?

RESPONSE: 39 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.5	1.8	0.0	-0.1	-1.5*	-2.0*	1.8*	7.1*	-1.1*	1.2	0.2	-1.7*	-1.4*	4.7*	-0.1	0.2	-0.9	-0.5	-1.0	-1.7
STD ERR OF DP		1.1	0.9	0.8	0.6	0.5	0.5	2.6	0.4	0.9	0.8	0.5	0.7	2.2	1.0	0.6	0.9	1.8	0.9	0.9
STD ERR OF P	0.5	1.3	1.0	1.0	0.4	0.2	0.9	2.9	0.4	1.1	0.9	0.4	0.6	2.4	1.0	0.9	0.9	1.9	0.8	0.8

RC13
OBJ IV

If John drives at an average speed of 50 miles an hour, how many hours will it take him to drive 275 miles?

ANSWER ______________________

SCORING GUIDE
RC13
C20002-1234

00 = No response

10 = 5 1/2; 5.5; 5 hours 30 minutes or equivalent fraction; e.g., 1 1/2

11 = 5 r25; 5 hours r25

12 = Correct process with no answer or wrong answer; e.g., any attempt to divide 275 by 50

20 = 325; 225; attempt to add 275 and 50 or subtract 50 from 275

21 = 13,750; attempt to multiply 275 by 50

22 = Other Unacceptable

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

Report #: RC13

NAEP #: C20002-1234

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		9	13	17	Adult
Age:					
Package-Exercise:		03-11	09-03	04-09	07-17
National P-value:					
	RC13	6.35	46.07	63.11	69.12
Timing: (in seconds)					
	Stimulus:	8	8	8	8
	Response:	40	32	31	*
RC13	Exercise total:	48	40	39	*

*Time not limited by paced tape.

EXERCISE: RC13

If John drives at an average speed of 50 miles an hour, how many hours will it take him to drive 275 miles?

RESPONSE: 0U TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 9																				
DELTA-P	2.1	0.4	0.2	-0.1	-0.5	0.6*	-0.6*	3.6#	-0.8#	-0.3	-1.6*	-0.3	-0.2	0.6	1.3	0.0	0.9	1.0	-1.0	-1.8#
STD ERR OF DP		0.7	0.6	0.5	0.5	0.3	0.3	1.2	0.2	1.1	0.7	0.6	0.4	0.9	1.9	0.4	0.9	1.2	0.6	0.5
STD ERR OF P	0.3	0.8	0.8	0.6	0.5	0.6	0.3	1.3	0.3	1.2	0.5	0.7	0.6	0.9	2.0	0.6	0.9	1.2	0.6	0.3
AGE: 13																				
DELTA-P	4.4	0.4	0.9	-0.6	-0.7	-0.2	0.2	4.1*	-0.8#	-2.2	3.4	-0.3	-1.2	8.6*	-3.6#	-0.2	[illegible]	-0.3	-1.8	-0.3
STD ERR OF DP		1.6	1.4	2.0	1.5	0.4	0.4	2.0	0.3	1.5	2.7	0.6	0.8	3.6	1.1	1.3	4.4	1.3	1.9	2.0
STD ERR OF P	0.9	1.7	1.5	2.5	1.6	0.8	1.2	2.0	1.1	1.2	3.2	1.2	1.2	3.7	0.5	1.5	4.9	0.9	2.0	2.2
AGE: 17																				
DELTA-P	1.1	-0.2	-0.2	-0.3	0.6	0.1	-0.1	2.0	-0.4*	1.2	-0.4	-0.1	-0.6#	2.9	0.8	-0.6	-0.8*	0.5	-0.5	0.1
STD ERR OF DP		0.4	0.3	0.5	0.5	0.3	0.3	1.1	0.2	0.6	0.5	0.2	0.2	1.7	0.6	0.3	[illegible]	0.7	0.5	1.1
STD ERR OF P	0.3	0.4	0.2	0.6	0.7	0.4	0.3	1.3	0.2	0.6	0.5	0.3	0.3	1.9	0.5	0.3	0.2	0.7	0.4	1.2
AGE: Ad																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.0	0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

RESPONSE: 01* TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 9																				
DELTA-P	6.4	-3.7#	2.3	1.5	-0.8	2.0#	-2.1#	-5.1#	1.2#	-5.2#	-3.2	-1.4	4.2#	-5.0#	-3.5#	-1.1	0.4	1.0	2.2	5.0*
STD ERR OF DP		1.1	1.4	1.3	1.1	0.5	0.6	0.9	0.2	1.3	1.8	1.1	1.2	1.0	1.3	0.9	2.4	1.9	1.6	2.5
P-VALUE	6.4	2.6	8.6	7.8	5.6	8.3	4.2	1.2	7.6	1.2	3.1	5.0	10.5	1.4	2.8	5.2	6.8	7.4	8.6	11.4
STD ERR OF P	0.7	1.1	1.7	1.5	1.2	1.1	0.7	0.6	0.9	1.2	1.7	1.1	1.6	0.8	1.2	1.2	2.6	1.9	1.7	2.7
AGE: 13																				
DELTA-P	44.1	-5.9*	-6.2#	4.7	7.3#	3.8#	-4.1#	-28.7#	5.2#	-16.7#	-10.9#	1.6	9.1#	-19.6#	6.4	-2.6	0.8	-7.0	0.6	15.6#
STD ERR OF DP		2.7	2.3	2.8	2.3	1.2	1.3	2.7	0.7	3.6	3.6	1.9	1.8	5.6	3.3	1.8	4.2	4.9	4.0	3.9
P-VALUE	44.1	38.2	37.9	48.7	51.4	47.9	39.9	15.4	49.3	27.4	33.2	45.6	53.2	24.5	50.4	41.5	44.8	37.1	44.7	59.7
STD ERR OF P	1.4	3.1	2.7	3.4	2.4	1.7	2.1	2.7	1.6	3.8	4.0	2.6	2.1	5.3	3.1	2.2	4.8	5.1	4.3	3.9
AGE: 17																				
DELTA-P	68.1	-8.8#	-0.5	0.9	6.0#	2.6*	-2.6	-31.0#	5.6#	-16.8#	-12.1#	-1.1	8.7#	-22.5#	-5.6	-0.8	4.2	1.9	5.4	8.9#
STD ERR OF DP		2.3	2.5	2.6	2.3	1.3	1.3	2.9	0.9	3.2	3.1	1.6	1.1	3.8	4.6	2.1	2.4	3.5	3.0	3.5
P-VALUE	68.1	59.3	67.6	69.1	74.1	70.7	65.5	37.1	73.7	51.3	56.0	67.1	76.8	45.6	62.5	67.3	72.3	70.0	73.5	77.0
STD ERR OF P	1.5	2.3	2.7	3.3	2.6	1.8	2.1	3.0	1.3	3.3	3.1	2.5	1.6	4.3	4.8	2.3	2.2	3.3	3.4	3.9
AGE: Ad																				
DELTA-P	69.1	-2.7	1.9	0.4	-0.2	5.4#	-5.0#	-28.7#	4.4#	-9.3#	-6.0	3.7*	9.8#	-16.1#	-7.8#	-0.0	4.5	-2.0	-1.0	13.8#
STD ERR OF DP		2.3	1.9	2.0	2.6	1.4	1.3	3.6	0.6	2.2	3.0	1.6	1.7	3.5	3.0	1.5	4.0	5.5	3.4	2.7
P-VALUE	69.1	66.4	71.0	69.5	68.9	74.5	64.1	40.4	73.5	59.9	63.2	72.8	78.9	53.0	61.3	69.1	73.7	67.1	68.1	82.9
STD ERR OF P	1.3	2.5	2.1	2.2	3.2	1.7	1.9	3.6	1.4	2.6	3.4	1.9	1.9	3.8	2.9	2.0	4.3	5.5	3.8	2.7

RESPONSE: 10 TEXT: 5 1/2; 5.5; 5 hours 30 minutes or equivalent fraction; e.g., 1 1/2

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 9																				
DELTA-P	5.5	-3.2#	1.7	1.8	-1.0	2.1#	-2.2#	-4.3#	1.0#	-4.3#	-2.4	-1.5	3.6#	-4.1#	-3.4*	-0.6	0.1	0.2	2.3	3.6
STD ERR OF DP		1.0	1.2	1.1	1.0	0.5	0.5	0.9	0.2	1.3	1.8	1.0	1.2	0.9	1.4	0.8	2.0	1.5	1.6	2.1
STD ERR OF P	0.6	1.0	1.5	1.4	1.0	1.0	0.6	0.6	0.8	1.2	1.7	0.9	1.6	0.8	1.3	1.1	2.2	1.4	1.7	2.3
AGE: 13																				
DELTA-P	33.3	-8.8#	-3.0	3.2	8.5#	4.3#	-4.6#	-25.5#	4.5#	-15.4#	-10.3#	1.1	8.1#	-16.3#	4.1	-3.2*	-2.7	-5.9	3.1	17.5#
STD ERR OF DP		2.7	2.2	2.7	2.1	1.2	1.3	1.9	0.5	2.8	2.9	1.7	1.3	4.8	3.9	1.6	3.8	4.7	3.9	3.5
STD ERR OF P	1.8	3.2	2.5	3.3	2.2	1.9	1.8	1.5	1.5	2.8	3.2	2.5	1.9	4.3	4.3	2.0	4.3	4.8	4.2	3.5
AGE: 17																				
DELTA-P	64.4	-8.8#	-2.7	0.9	7.9#	4.2#	-4.3#	-31.0#	5.8#	-23.2#	-12.6#	-0.4	9.3#	-20.8#	-6.3	-1.9	4.2	2.4	4.9	11.3#
STD ERR OF DP		2.6	2.7	2.8	2.4	1.4	1.5	2.8	0.9	3.5	3.3	1.7	1.3	4.0	4.7	2.3	2.6	3.5	3.3	3.8
STD ERR OF P	1.6	2.6	3.0	3.6	2.7	1.9	2.4	3.0	1.4	3.6	3.3	2.6	1.9	4.5	4.8	2.5	2.5	3.3	3.7	4.2

EXERCISE: BC13

If John drives at an average speed of 50 miles an hour, how many hours will it take him to drive 275 miles?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 10 AGE: Ad TEXT: 5 1/2; 5.5; 5 hours 30 minutes or equivalent fraction; e.g., 1 1/2																				
DELTA-P	66.5	-2.5	2.5	-1.0	0.6	7.2#	-6.7#	-29.9#	4.8#	-8.2#	-5.3	3.9*	8.1#	-17.0#	-7.8*	1.0	4.7	-2.5	0.1	10.7#
STD ERR OF DP		2.2	1.9	1.8	2.4	1.4	1.4	3.1	0.6	2.2	3.0	1.7	1.9	3.5	3.2	1.5	3.8	5.1	3.5	2.9
STD ERR OF P	1.2	2.4	2.1	2.1	2.9	1.7	1.9	3.1	1.3	2.7	3.3	2.0	2.1	3.8	3.1	1.9	4.0	5.1	3.9	2.9
RESPONSE: 11 AGE: 9 TEXT: 5 r25; 5 hours r25																				
DELTA-P	0.8	-0.5	0.6	-0.4	0.2	-0.1	0.1	-0.9#	0.2#	-0.5#	-0.9#	0.2	0.6	-0.9#	-0.2	-0.5*	0.3	0.8	-0.1	1.8
STD ERR OF DP		0.3	0.4	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.2	0.4	0.4	0.2	0.7	0.2	0.6	0.9	0.4	0.9
STD ERR OF P	0.2	0.4	0.5	0.4	0.5	0.3	0.3	0.0	0.3	0.0	0.0	0.5	0.5	0.0	0.7	0.2	0.6	0.9	0.5	1.1
AGE: 13																				
DELTA-P	10.8	2.9	-3.1*	1.5	-1.1	-0.4	0.5	-3.2	0.8*	-1.3	-0.6	0.4	1.1	-3.4	2.3	0.7	3.5	-1.0	-2.5	-1.9
STD ERR OF DP		2.4	1.3	1.9	1.2	0.8	0.9	2.0	0.3	2.7	2.3	1.0	1.0	3.0	3.5	1.1	2.6	1.9	1.6	2.0
STD ERR OF P	1.0	2.9	1.3	2.3	1.0	1.2	1.5	1.9	1.2	2.7	2.6	1.6	1.4	3.1	4.1	1.6	2.8	1.8	1.6	2.0
AGE: 17																				
DELTA-P	3.7	-0.1	2.2	0.1	-1.9#	-1.7#	1.7#	-0.0	-0.2	6.4*	0.5	-0.7	-0.7	-1.7	0.7	1.1	-0.0	-0.5	0.5	-2.3#
STD ERR OF DP		0.9	1.2	0.8	0.7	0.5	0.6	1.1	0.2	2.9	1.2	0.7	0.6	0.9	0.9	1.0	1.1	1.3	1.0	0.9
STD ERR OF P	0.5	0.9	1.5	1.0	0.6	0.4	1.0	1.1	0.6	3.1	1.2	0.8	0.9	0.7	0.8	1.4	1.2	1.4	1.1	0.7
AGE: Ad																				
DELTA-P	2.6	-0.2	-0.7	1.4	-0.8	-1.8#	1.6#	1.1	-0.5	-1.0*	-0.7	-0.3	1.7*	0.9	-0.0	-1.0*	-0.1	0.5	-1.1	3.2
STD ERR OF DP		0.7	0.5	0.8	0.7	0.4	0.4	1.8	0.3	0.5	0.8	0.6	0.8	1.2	1.1	0.5	1.0	1.7	1.0	1.8
STD ERR OF P	0.4	0.8	0.4	1.1	0.8	0.3	0.7	1.9	0.4	0.5	0.9	0.7	1.1	1.3	1.1	0.4	1.1	1.8	0.9	2.0
RESPONSE: 12 AGE: 9 TEXT: Correct process with no answer or wrong answer; e.g., any attempt to divide 275 by 50																				
DELTA-P	1.1	-0.9*	-0.6	0.1	1.4	-0.2	0.2	-1.1#	0.2*	-1.1#	-0.1	0.6	0.2	-1.1#	-0.4	0.1	-0.4	0.4	0.2	0.5
STD ERR OF DP		0.4	0.4	0.5	0.8	0.2	0.3	0.3	0.1	0.3	1.0	0.6	0.3	0.3	0.6	0.5	0.5	0.9	0.6	0.9
STD ERR OF P	0.3	0.2	0.3	0.5	1.1	0.3	0.5	0.0	0.4	0.0	1.0	0.8	0.4	0.0	0.5	0.7	0.5	0.9	0.6	0.9
AGE: 13																				
DELTA-P	15.0	-0.5	-0.5	-0.9	2.0	-0.4	0.4	-3.3	0.4	-0.4	-0.6	-0.4	0.4	-5.9	-2.7	2.8	0.5	3.1	-3.0	-2.0
STD ERR OF DP		1.8	1.4	1.7	1.8	0.9	0.9	2.1	0.4	2.5	3.2	1.2	1.1	3.0	4.0	1.7	3.2	2.4	1.7	2.5
STD ERR OF P	1.0	2.1	1.5	2.0	2.1	1.2	1.4	2.1	1.1	2.6	3.4	1.6	1.4	3.1	4.3	1.9	3.4	2.4	1.7	2.7
AGE: 17																				
DELTA-P	12.7	2.4	-0.8	2.0	-3.2*	-1.8*	1.8*	3.5*	-0.9*	0.8	-1.8	3.4#	-2.6#	5.1#	1.0	1.5	-3.2	3.0	-2.9	-2.5
STD ERR OF DP		2.0	1.4	1.5	1.5	0.8	0.8	1.6	0.4	2.2	1.7	1.3	0.9	1.8	2.8	1.4	2.0	1.7	2.6	2.7
STD ERR OF P	0.9	2.3	1.3	1.9	1.7	1.1	1.3	1.6	1.0	2.2	1.8	1.8	1.2	1.7	2.9	1.7	2.1	1.5	2.9	3.0
AGE: Ad																				
DELTA-P	8.3	-0.5	0.7	-0.6	0.3	-3.0#	2.8#	1.3	0.0	0.2	-0.2	-0.1	-0.2	0.3	2.5	-0.0	-0.7	-2.3	-0.2	0.7
STD ERR OF DP		1.2	1.3	1.0	1.4	0.7	0.7	2.3	0.3	1.2	1.8	1.1	1.1	2.3	2.3	0.9	1.9	2.4	2.0	1.6
STD ERR OF P	0.7	1.2	1.6	1.1	1.7	0.8	1.1	2.4	0.8	1.5	1.8	1.3	1.4	2.4	2.4	1.2	1.9	2.5	2.2	1.8
RESPONSE: 20 AGE: 9 TEXT: 325; 225; attempt to add 275 and 50 or subtract 50 from 275																				
DELTA-P	18.1	-1.8	-2.1	3.0	0.4	-4.5#	4.8#	-0.2	-0.1	-0.4	3.4	2.5	0.2	1.8	8.6	-0.3	-2.6	-2.1	-0.1	-1.3
STD ERR OF DP		1.7	1.8	1.7	2.2	0.9	0.9	2.4	0.5	3.4	4.5	2.1	1.2	3.2	5.7	1.4	2.8	3.2	2.7	3.3
STD ERR OF P	1.1	1.7	2.1	2.0	2.6	1.4	1.5	2.4	1.2	3.6	4.8	2.1	1.7	3.2	6.0	1.7	3.1	3.3	2.8	3.6
AGE: 13																				
DELTA-P	5.6	2.2*	0.3	-1.0	-1.3	-1.1*	1.2*	11.9#	-2.1#	6.3#	4.2	-0.4	-2.9#	5.8*	-0.1	1.0	-0.9	-1.3	1.1	-0.9#
STD ERR OF DP		1.0	0.9	1.0	0.8	0.5	0.5	2.1	0.4	1.8	2.3	0.7	0.6	2.7	1.2	0.9	1.4	1.2	1.4	0.7
STD ERR OF P	0.5	1.1	1.1	1.2	0.8	0.7	0.7	2.4	0.8	1.8	2.4	0.9	0.6	2.8	1.1	1.1	1.5	1.3	1.6	0.5

EXERCISE: RC13

If John drives at an average speed of 50 miles an hour, how many hours will it take him to drive 275 miles?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: 17 TEXT: 325; 225; attempt to add 275 and 50 or subtract 50 from 275																				
DELTA-P	0.9	0.5	0.3	0.1	-0.7#	-0.6#	0.6#	4.2#	-0.6#	0.4	1.9	-0.0	-0.4	2.0	1.7	-0.7#	0.5	0.2	-0.7*	-0.9#
STD ERR OF DP		0.6	0.4	0.5	0.3	0.2	0.2	1.3	0.2	0.6	1.0	0.3	0.3	1.0	1.3	0.3	0.5	1.0	0.3	0.2
STD ERR OF P	0.2	0.7	0.4	0.6	0.1	0.1	0.5	1.5	0.1	0.7	1.2	0.4	0.3	1.1	1.4	0.1	0.5	1.1	0.2	0.0
AGE: Ad																				
DELTA-P	0.3	0.5	-0.3#	-0.3#	0.2	0.1	-0.1	1.5	-0.2	0.2	0.1	-0.1	-0.1	0.6	-0.3#	0.1	-0.3#	-0.3#	-0.3#	0.1
STD ERR OF DP		0.3	0.1	0.1	0.3	0.2	0.1	0.8	0.1	0.3	0.3	0.2	0.2	0.6	0.1	0.2	0.1	0.1	0.1	0.3
STD ERR OF P	0.1	0.4	0.0	0.0	0.3	0.2	0.2	0.8	0.1	0.3	0.3	0.2	0.2	0.7	[illegible]	0.2	0.0	0.0	0.0	0.0
RESPONSE: 21 AGE: 9 TEXT: 13,750; attempt to multiply 275 by 50																				
DELTA-P	2.1	-1.2#	0.7	-1.3*	1.9*	-0.7*	0.8*	-1.3	0.2	0.5	-2.1#	-0.4	1.3*	-0.6	0.5	0.3	-1.0*	0.4	-1.3*	1.2
STD ERR OF DP		0.4	0.6	0.5	0.8	0.3	0.3	0.9	0.1	1.5	0.3	0.5	0.6	1.4	1.5	0.5	0.5	1.0	0.5	1.1
STD ERR OF P	0.3	0.3	0.8	0.5	1.0	0.4	0.5	0.8	0.4	1.5	0.0	0.5	0.8	1.4	1.6	0.6	0.5	1.1	0.5	1.2
AGE: 13																				
DELTA-P	7.4	-0.7	0.2	1.0	-0.6	-2.8#	3.0#	-1.2	0.3	-1.6	-2.1	-0.3	-0.4	-2.7	-3.1*	0.2	-2.0	4.2	2.4	-0.8
STD ERR OF DP		0.8	0.9	1.2	0.8	0.6	0.7	1.4	0.2	1.8	1.6	0.9	0.8	1.7	1.4	0.7	1.7	2.4	1.9	1.4
STD ERR OF P	0.6	0.9	1.0	1.5	0.7	0.7	1.0	1.3	0.7	1.8	1.6	1.1	0.9	1.7	1.4	0.7	1.8	2.6	2.1	1.4
AGE: 17																				
DELTA-P	1.8	3.1#	-0.4	-1.2#	-0.7	-0.4	0.4	3.8#	-0.7#	1.1	2.2	-0.2	-0.8#	2.2	-0.6	1.0*	-0.6	-1.2#	-1.3#	-0.4
STD ERR OF DP		0.9	0.5	0.3	0.4	0.3	0.3	1.0	0.2	0.8	1.2	0.4	0.3	1.2	0.8	0.4	0.4	0.4	0.4	0.7
STD ERR OF P	0.3	1.1	0.5	0.3	0.3	0.3	0.5	1.1	0.2	0.9	1.3	0.4	0.3	1.3	0.9	0.6	0.4	0.4	0.3	0.7
AGE: Ad																				
DELTA-P	0.6	0.0	-0.3	0.1	0.2	-0.2	0.1	1.3	-0.2	0.3	0.6	-0.4*	-0.6#	1.1	0.0	-0.2	0.1	-0.6#	0.9	-0.6#
STD ERR OF DP		0.3	0.2	0.3	0.3	0.2	0.1	0.9	0.1	0.3	0.5	0.2	0.2	1.0	0.6	0.2	0.4	0.2	0.6	0.2
STD ERR OF P	0.2	0.3	0.2	0.4	0.3	0.2	0.2	1.0	0.1	0.3	0.6	0.2	0.0	1.0	0.8	0.2	0.4	0.0	0.6	0.0
RESPONSE: 22 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	42.1	9.6#	-5.1#	0.7	-4.3*	5.5#	-5.9#	10.2#	-1.6#	10.8	3.3	3.1	-3.5*	4.7	3.8	1.2	5.2	0.5	-4.3	-9.2#
STD ERR OF DP		2.4	1.9	2.1	2.1	1.4	1.4	3.0	0.6	7.0	5.8	2.3	1.7	3.8	4.7	1.9	3.1	3.5	3.7	3.1
STD ERR OF P	1.3	2.8	2.2	2.4	2.4	2.0	1.9	2.9	1.6	7.4	5.9	2.1	2.5	3.7	5.1	2.6	2.9	3.5	4.0	3.2
AGE: 13																				
DELTA-P	16.8	0.9	5.9#	-2.1	-4.9#	0.8	-0.8	13.4#	-2.3#	7.4	2.4	0.4	-2.4*	12.9#	-0.4	-1.1	-1.6	0.1	2.3	-4.2
STD ERR OF DP		1.9	2.3	2.4	1.3	0.8	0.9	3.5	0.5	4.2	2.6	1.3	1.1	4.1	3.3	1.3	2.7	2.6	3.5	2.8
STD ERR OF P	1.2	2.1	2.8	2.9	0.8	1.4	1.5	3.7	1.3	4.5	3.1	1.8	1.5	4.0	3.9	1.7	2.8	2.7	3.8	2.9
AGE: 17																				
DELTA-P	11.1	1.7	0.2	-0.4	-1.0	0.5	-0.5	11.5#	-2.0#	4.2	10.9#	-0.5	-3.4#	7.3#	3.0	-1.7	0.7	-2.5	-0.1	-2.1
STD ERR OF DP		1.7	1.3	1.4	1.2	0.7	0.7	2.7	0.5	3.0	2.5	1.2	0.8	1.8	3.3	1.0	2.0	1.8	1.9	2.5
STD ERR OF P	0.8	2.0	1.4	1.8	1.3	1.0	1.2	2.9	0.8	3.3	2.6	1.4	0.9	1.7	3.4	1.0	2.2	1.8	2.2	2.8
AGE: Ad																				
DELTA-P	18.5	1.3	-0.1	1.1	-2.3	-0.9	0.8	17.3#	-2.9#	5.9#	5.2	-2.8	-6.4#	6.1	5.4*	1.0	-3.7	4.9	1.3	-11.3#
STD ERR OF DP		2.0	1.6	2.1	1.8	1.0	0.9	3.1	0.5	1.8	2.6	1.5	1.3	3.1	2.6	1.4	2.5	4.3	2.8	2.3
STD ERR OF P	1.1	2.2	1.7	2.7	1.9	1.6	1.3	3.3	1.2	2.1	3.1	1.8	1.5	3.2	2.6	2.0	2.7	4.4	3.0	2.1
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	28.1	-2.5	4.7*	-4.0*	2.0	-2.7*	2.9*	-6.0#	0.8	-3.5	0.2	-4.3*	[illegible]	-0.5	-10.3#	-0.1	-2.4	-1.2	4.2	5.6
STD ERR OF DP		1.9	2.0	1.7	2.2	1.2	1.3	2.4	0.6	7.7	5.7	2.0	1.7	4.4	3.7	1.7	2.1	3.2	2.2	3.5
STD ERR OF P	1.2	2.0	2.6	1.8	2.5	2.0	1.4	2.5	1.3	8.3	5.9	2.2	1.8	4.4	3.9	2.3	2.0	3.2	2.3	3.6

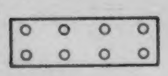
EXERCISE: RC13

If John drives at an average speed of 50 miles an hour, how many hours will it take him to drive 275 miles?

RESPONSE: 39 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	6.8	3.7#	-0.6	-1.1	-1.8*	-0.2	0.2	3.8*	-0.6*	7.1#	3.5	-0.6	-2.7#	0.9	3.6	-0.2	1.1	1.2	-1.7	-3.4#
STD ERR OF DP		1.0	0.8	0.9	0.8	0.6	0.7	1.9	0.3	2.7	2.7	0.6	0.6	2.4	3.4	1.0	1.0	2.0	1.4	1.1
STD ERR OF P	0.5	1.1	0.9	1.1	0.8	0.9	0.7	1.8	0.6	2.9	2.8	0.9	0.6	2.4	3.6	1.0	1.0	2.1	1.5	1.1
AGE: 17																				
DELTA-P	4.3	1.3	1.4	-1.1	-1.0	-0.3	0.3	6.1#	-1.0#	9.2#	-0.7	-1.6#	-0.9	3.1	-0.2	1.4	-0.9	-1.8	0.1	-3.2#
STD ERR OF DP		0.8	0.8	0.8	0.8	0.5	0.5	2.0	0.4	2.4	1.0	0.6	0.5	1.9	1.5	0.8	0.9	1.5	1.0	0.8
STD ERR OF P	0.5	0.9	0.8	0.9	1.0	0.8	0.6	2.2	0.4	2.6	1.0	0.6	0.7	2.1	1.6	1.0	0.8	1.5	1.1	0.8
AGE: Ad																				
DELTA-P	3.2	1.3	-2.0#	-0.7	1.8	-1.4#	1.3#	7.1#	-1.0#	2.7#	0.3	-0.3	-2.5#	8.1#	0.2	-0.9	0.1	0.3	-0.7	-2.7#
STD ERR OF DP		1.0	0.5	0.7	1.2	0.4	0.4	2.4	0.4	0.9	0.9	0.6	0.4	2.8	1.3	0.6	1.4	2.2	1.1	0.6
STD ERR OF P	0.5	1.1	0.3	0.7	1.5	0.5	0.7	2.7	0.4	1.3	1.0	0.6	0.5	3.1	1.3	0.6	1.4	2.4	1.1	0.4

RC14
OBJ III



If one-fourth of the dots in the above figure are removed, how many dots will be left?

ANSWER ____________________

SCORING GUIDE
RC14
C20008-1

00 = No Response

10 = 6; 6 dots; 6 circles

11 = 3/4; 3/4 of the dots (or circles)

20 = 2; 2 dots (or circles)

21 = 4; 4 dots (or circles); 1/2; 1/2 of the dots (or circles)

22 = 1/4; 1/4 of the dots (or circles)

23 = Other Unacceptable

39 = I Don't Know.

Report #: RC14

NAEP #: C20008-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		05-23
National P-value:		
	RC14	21.37

Timing: (in seconds)

	Stimulus:	6
	Response:	30
RC14	Exercise total:	36

EXERCISE: RC14

If one fourth of the dots in the above figure are removed, how many dots will be left? (figure contains 8 dots)

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.3	0.2	-0.1	-0.2	0.1	0.2	-0.2	0.1	-0.1	-0.1	-0.3#	0.1	-0.3#	0.1	-0.3#	0.1	-0.2	0.5	-0.3*	-0.1
STD ERR OF DP		0.3	0.2	0.1	0.2	0.1	0.1	0.3	0.1	0.2	0.1	0.3	0.1	0.3	0.1	0.2	0.1	0.4	0.1	0.2
STD ERR OF P	0.1	0.3	0.2	0.1	0.3	0.2	0.1	0.3	0.1	0.2	0.0	0.3	0.0	0.4	0.0	0.2	0.1	0.5	0.0	0.2
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	21.4	-9.8#	2.6	2.7	4.4*	2.7*	-2.7*	-14.6#	3.2#	-13.1#	-10.7#	2.8	8.2#	-15.3#	2.2	-5.3#	-1.2	4.4	5.6	14.1#
STD ERR OF DP		1.5	2.2	1.7	2.1	1.2	1.2	1.9	0.6	2.7	3.1	2.2	1.5	1.6	3.5	1.6	1.8	2.7	3.1	4.5
P-VALUE	21.4	11.6	24.0	24.0	25.8	24.0	18.7	6.8	24.6	8.3	10.7	24.2	29.6	6.1	23.5	16.1	20.2	25.7	26.9	35.5
STD ERR OF P	1.1	1.3	2.6	2.0	2.5	1.6	1.7	1.6	1.3	2.7	3.1	2.5	2.2	1.6	3.4	1.7	1.6	2.8	3.3	5.0
RESPONSE: 10 AGE: 9 TEXT: 6; 6 dots; 6 circles																				
DELTA-P	20.7	-9.8#	2.3	3.0	4.5*	2.9*	-2.9*	-14.3#	3.1#	-12.4#	-10.0#	2.5	8.4#	-14.8#	2.5	-5.4#	-1.3	4.3	6.0	13.8#
STD ERR OF DP		1.5	2.0	1.8	2.2	1.3	1.2	1.9	0.6	2.7	3.1	2.3	1.5	1.6	3.5	1.6	1.9	2.7	3.1	4.3
STD ERR OF P	1.1	1.4	2.4	2.1	2.6	1.6	1.7	1.7	1.3	2.7	3.1	2.6	2.1	1.6	3.3	1.7	1.9	2.8	3.4	4.8
RESPONSE: 11 AGE: 9 TEXT: 3/4; 3/4 of the dots (or circles)																				
DELTA-P	0.7	0.0	0.4	-0.4	-0.0	-0.3	0.3	-0.3	0.1	-0.7#	-0.7#	0.3	-0.2	-0.4	-0.4	0.1	0.1	0.1	-0.5	0.4
STD ERR OF DP		0.3	0.4	0.3	0.4	0.2	0.2	0.3	0.1	0.2	0.2	0.4	0.2	0.3	0.3	0.3	0.5	0.5	0.3	0.7
STD ERR OF P	0.2	0.4	0.5	0.2	0.4	0.2	0.3	0.3	0.2	0.0	0.0	0.5	0.2	0.2	0.3	0.4	0.5	0.5	0.2	0.8
RESPONSE: 20 AGE: 9 TEXT: 2; 2 dots (or circles)																				
DELTA-P	3.4	0.3	-0.0	0.0	-0.3	-0.1	0.1	0.4	0.1	-1.1	1.4	0.3	0.2	-0.7	-0.8	-0.5	1.4	2.1	-0.1	-0.9
STD ERR OF DP		1.0	0.9	0.7	1.1	0.4	0.4	0.9	0.2	1.2	2.2	0.8	0.6	1.2	1.2	0.8	1.8	1.9	1.2	1.1
STD ERR OF P	0.5	1.2	1.0	0.7	1.4	0.7	0.6	1.1	0.6	1.3	2.3	1.2	0.7	1.2	1.1	0.9	2.0	2.2	1.2	1.1
RESPONSE: 21 AGE: 9 TEXT: 4; 4 dots (or circles); 1/2; 1/2 of the dots (or circles)																				
DELTA-P	48.4	5.9#	-6.0*	1.0	-0.8	-2.3	2.3	4.9	-1.0	15.0#	13.6#	-6.7#	-2.9	6.0	-1.2	3.3	1.8	-3.6	-2.4	-7.6
STD ERR OF DP		1.9	2.5	1.8	2.6	1.7	1.7	2.5	0.6	5.3	4.7	2.3	1.5	3.3	4.0	2.1	3.3	3.5	2.6	4.4
STD ERR OF P	1.3	2.1	2.9	1.8	3.2	2.2	2.0	2.4	1.5	5.4	5.1	2.5	2.0	3.3	3.7	2.5	3.5	3.7	2.8	4.8
RESPONSE: 22 AGE: 9 TEXT: 1/4; 1/4 of the dots (or circles)																				
DELTA-P	3.4	0.5	-0.3	-0.3	0.2	-1.1*	1.1*	-0.3	0.4	2.5	-2.7#	0.4	-0.5	1.0	-2.2#	1.2*	0.8	-1.8*	-1.2	-0.4
STD ERR OF DP		0.8	0.7	0.6	1.1	0.5	0.5	0.9	0.2	3.0	0.8	0.8	0.6	1.7	0.8	0.5	1.1	0.7	0.9	1.2
STD ERR OF P	0.5	0.9	0.8	0.6	1.4	0.4	0.9	1.0	0.6	3.1	0.7	0.8	0.8	1.7	0.8	0.9	1.4	0.6	0.9	1.2
RESPONSE: 23 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	19.9	3.1	4.4#	-3.2*	-4.3*	0.6	-0.6	5.7*	-1.8#	-2.2	-1.2	3.2	-3.8#	6.1*	3.7	1.0	-1.4	-2.1	-0.3	-5.5
STD ERR OF DP		2.2	1.4	1.6	1.8	1.0	1.0	2.3	0.6	2.7	3.4	2.4	1.1	2.9	3.1	1.6	2.7	3.0	2.6	3.0
STD ERR OF P	1.0	2.6	1.3	1.7	2.1	1.3	1.5	2.7	1.2	2.7	3.4	2.7	1.5	3.1	3.0	2.0	2.8	3.2	2.8	3.2
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	3.2	-0.1	-0.6	-0.0	0.7	0.1	-0.1	3.8#	-0.8#	-1.0	-0.1	-0.1	-0.9*	2.8*	-1.5	0.1	-1.2	0.5	-1.2	0.3
STD ERR OF DP		0.6	0.7	0.6	0.9	0.4	0.4	1.2	0.2	1.4	1.6	0.8	0.4	1.2	0.9	0.6	0.8	1.2	1.0	1.1
STD ERR OF P	0.4	0.7	0.8	0.7	1.1	0.5	0.6	1.4	0.4	1.4	1.7	0.7	0.6	1.3	0.8	0.8	0.8	1.3	1.1	1.2

RC15
OBJ II

Do the following addition:

$\frac{1}{2} + \frac{1}{3} =$

ANSWER ____________________

Report #: RC15

NAEP #: C20021-23

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17
Package-Exercise:		03-20	11-18
National P-value:			
	RC15	41.87	66.23
Timing: (in seconds)			
	Stimulus:	1	1
	Response:	46	46
RC15	Exercise total:	47	47

SCORING GUIDE
RC15
C20021-23

00 = No Response

10 = 5/6

20 = 2/5

21 = 1/6

22 = Other Unacceptable

23 = 1/5

24 = 2/6; 1/3

39 = I Don't Know.

EXERCISE: BC15

Do the following addition: 1/2 + 1/3 =

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.2	-0.9	-0.3	1.5	-0.6	0.3	-0.3	-0.4	0.1	-0.2	0.4	-0.3	-0.1	0.2	7.1	-1.1	-0.1	-0.1	-0.6	-1.0
STD ERR OF DP		0.7	0.8	1.8	0.7	0.2	0.2	0.8	0.2	1.0	0.9	0.4	0.3	1.0	7.3	2.7	0.9	0.9	0.8	0.7
STD ERR OF P	0.7	0.2	0.5	2.5	0.3	0.9	0.6	0.5	0.9	0.7	1.6	0.5	1.0	0.0	8.0	0.1	0.6	0.5	0.5	0.1
AGE: 17																				
DELTA-P	0.9	-0.8	1.7	-0.5	-0.5	0.2	-0.2	-0.1	0.1	-0.9	-0.9	-0.9	0.7	-0.9	-0.8	-0.8	-0.9	1.4	-0.9	5.8
STD ERR OF DP		0.7	2.0	0.7	0.8	0.1	0.1	0.9	0.2	0.7	0.7	0.7	0.9	0.7	0.7	0.7	0.7	1.4	0.7	5.9
STD ERR OF P	0.7	0.2	2.7	0.3	0.4	0.8	0.6	0.7	0.8	0.0	0.0	0.0	1.5	0.0	0.1	0.1	0.0	1.3	0.0	6.5
RESPONSE: 10* AGE: 13 TEXT: 5/6																				
DELTA-P	41.9	-11.2#	-5.6	3.4	12.1#	-3.4*	3.1*	-24.1#	5.3#	-20.5#	-12.5#	-3.5	13.3#	-27.3#	-16.0#	-3.8	8.6	-2.9	9.4*	23.5#
STD ERR OF DP		3.6	3.0	3.6	3.7	1.4	1.3	4.3	0.9	3.6	3.0	1.8	1.3	4.0	4.7	2.2	5.7	5.4	3.0	3.4
P-VALUE	41.9	30.7	36.3	45.2	54.0	38.5	45.0	17.8	47.1	21.3	29.4	38.4	55.2	14.5	25.9	38.1	50.5	39.0	51.3	65.3
STD ERR OF P	2.0	3.9	3.2	4.4	4.3	1.8	2.9	4.3	2.2	3.9	3.0	2.6	2.3	3.7	5.2	2.9	6.2	5.6	3.0	3.3
AGE: 17																				
DELTA-P	66.2	-0.8	-2.7	2.6	0.2	-1.0	1.0	-31.2#	6.0#	-13.5#	-20.3#	-1.4	12.8#	-22.8#	-4.4	5.9#	4.4	-6.1	0.1	7.6
STD ERR OF DP		2.7	3.0	2.6	2.4	1.2	1.3	3.1	0.9	4.5	2.9	1.9	1.7	5.7	4.0	2.0	3.3	6.1	3.3	5.9
P-VALUE	66.2	65.4	63.6	68.8	66.4	65.3	67.3	35.0	72.3	52.7	46.0	64.8	79.0	43.5	61.9	72.1	70.7	60.1	66.3	73.9
STD ERR OF P	1.6	2.8	3.7	3.3	2.5	2.0	2.0	3.3	1.7	4.6	3.2	2.5	2.1	5.8	4.3	2.4	3.0	6.5	3.7	6.2
RESPONSE: 20 AGE: 13 TEXT: 2/5																				
DELTA-P	30.1	9.3*	1.5	-1.3	-8.5#	-0.3	0.2	15.2#	-3.0#	13.5#	3.9	3.8*	-8.3#	14.1#	6.4	3.4	-2.2	1.2	-9.5#	-12.5#
STD ERR OF DP		3.8	2.6	2.8	3.3	1.0	0.9	4.5	0.9	5.1	3.8	1.7	1.2	5.0	4.7	2.1	3.1	4.6	3.3	2.9
STD ERR OF P	1.8	4.5	2.8	3.3	3.9	1.8	2.2	5.1	1.8	5.7	4.2	2.5	1.7	5.4	5.2	3.0	3.2	4.9	3.3	2.7
AGE: 17																				
DELTA-P	15.9	4.6*	-2.5	-0.6	-0.4	-1.4	1.5	19.6#	-3.5#	5.7	7.8#	3.6*	-8.0#	13.3#	5.0	-5.3#	-2.3	4.5	2.6	-6.4#
STD ERR OF DP		2.0	1.8	2.0	1.7	0.8	0.9	2.8	0.6	3.1	2.6	1.5	1.0	2.9	3.4	1.2	2.2	4.7	3.0	2.2
STD ERR OF P	1.1	2.1	2.0	2.6	1.7	1.3	1.4	3.1	1.1	3.1	3.0	1.9	1.0	2.9	3.6	1.4	2.1	5.0	3.5	2.0
RESPONSE: 21 AGE: 13 TEXT: 1/6																				
DELTA-P	2.1	1.3	-0.1	-1.1*	0.2	-0.2	0.2	0.2	-0.1	0.2	0.8	-0.4	-0.1	-2.1#	0.4	0.1	0.7	0.7	0.1	-0.5
STD ERR OF DP		1.2	0.5	0.5	0.5	0.3	0.3	0.8	0.2	1.0	1.3	0.5	0.4	0.4	1.0	0.6	1.1	1.2	0.9	0.8
STD ERR OF P	0.4	1.5	0.5	0.5	0.5	0.5	0.5	0.8	0.5	1.0	1.4	0.6	0.5	0.1	1.0	0.8	1.3	1.2	0.8	0.7
AGE: 17																				
DELTA-P	1.4	0.3	0.2	-0.8*	0.4	0.6*	-0.6*	2.3*	-0.4*	1.4	0.1	0.5	-0.5	0.9	-0.5	0.4	-0.8	2.0*	-1.3#	-0.2
STD ERR OF DP		0.4	0.5	0.3	0.5	0.3	0.3	1.0	0.2	1.1	0.4	0.3	0.3	1.3	0.5	0.5	0.4	0.8	0.3	0.7
STD ERR OF P	0.3	0.4	0.7	0.3	0.7	0.4	0.4	1.0	0.3	1.1	0.3	0.4	0.4	1.4	0.5	0.6	0.3	0.8	0.1	0.7
RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	10.1	2.5	0.8	-3.1*	0.4	2.8#	-2.6#	6.0#	-1.4#	5.8	3.7	-0.9	-2.6#	9.5*	-0.6	1.5	-2.7	-2.8	-2.4	-2.9
STD ERR OF DP		1.5	1.7	1.3	1.3	0.7	0.6	2.2	0.5	2.9	2.2	1.0	0.9	3.8	2.9	1.2	2.1	1.7	1.7	1.6
STD ERR OF P	0.9	1.7	2.1	1.5	1.4	1.3	0.9	2.5	0.8	3.2	2.5	1.2	1.0	4.1	3.2	1.5	2.3	1.5	1.7	1.6
AGE: 17																				
DELTA-P	6.3	-2.3*	1.3	-0.6	1.3	1.0	-1.0	5.1*	-1.2#	0.6	10.1#	-2.6#	-1.5*	8.6#	1.4	-0.9	-1.0	-1.9	-1.0	-2.5*
STD ERR OF DP		1.1	1.4	0.9	1.5	0.5	0.5	2.1	0.4	1.9	2.6	0.7	0.7	3.1	2.0	1.0	1.1	1.7	1.0	1.1
STD ERR OF P	0.7	1.0	1.8	0.9	1.8	1.0	0.8	2.4	0.7	1.9	3.0	0.7	1.0	3.3	2.1	1.3	1.1	1.8	0.9	1.0
RESPONSE: 23 AGE: 13 TEXT: 1/5																				
DELTA-P	9.2	0.3	2.1	0.4	-3.0*	0.6	-0.6	2.5	-0.4	-0.1	1.3	1.2	-1.4	0.7	0.8	0.9	-3.0	4.7	1.2	-5.5#
STD ERR OF DP		1.4	1.3	2.2	1.4	0.9	0.9	2.0	0.4	3.4	2.8	1.0	0.7	1.9	2.8	1.1	1.6	5.8	1.9	1.4
STD ERR OF P	1.0	1.4	1.1	2.9	1.5	1.2	1.4	2.4	1.0	3.4	2.7	1.5	1.0	2.0	3.0	1.2	1.3	6.5	1.8	1.3

EXERCISE: BC15

Do the following addition: 1/2 + 1/3 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 23 AGE: 17 TEXT: 1/5																				
DELTA-P	5.7	-1.5	1.7	0.2	-0.8	0.8	-0.9	2.2	-0.6*	5.6	2.7	0.1	-2.3#	-0.7	1.0	0.4	0.1	0.9	-0.1	-2.2
STD ERR OF DP		0.8	1.0	0.7	0.9	0.6	0.6	1.7	0.3	3.0	1.8	0.9	0.6	1.4	1.7	0.7	1.4	2.7	1.3	1.2
STD ERR OF P	0.5	0.9	1.3	0.8	1.1	0.8	0.7	1.8	0.5	3.2	2.0	1.0	0.6	1.3	1.8	0.9	1.5	2.8	1.4	1.2
RESPONSE: 24 AGE: 13 TEXT: 2/6; 1/3																				
DELTA-P	4.5	-1.3	1.7*	0.0	-0.6	-0.4	0.4	0.7	-0.5*	1.9	2.8	0.2	-0.9	4.7*	2.7*	-1.5#	-1.4	-0.7	1.5	-0.5
STD ERR OF DP		0.7	0.7	0.7	0.8	0.5	0.5	1.3	0.2	1.9	1.5	0.7	0.5	2.0	1.2	0.6	1.1	1.2	1.6	0.9
STD ERR OF P	0.4	0.8	0.8	0.8	1.0	0.7	0.7	1.4	0.4	1.9	1.6	0.9	0.6	2.1	1.3	0.6	1.1	1.3	1.7	0.9
AGE: 17																				
DELTA-P	2.7	0.8	-0.8	0.1	0.1	-0.4	0.4	1.2	-0.4#	0.7	0.5	1.1	-1.2#	1.5	-0.7	0.3	0.5	0.0	-0.5	-1.6*
STD ERR OF DP		0.6	0.5	0.5	0.6	0.3	0.4	0.7	0.2	1.5	0.8	0.6	0.4	1.1	0.9	0.5	1.0	1.0	0.7	0.8
STD ERR OF P	0.3	0.7	0.6	0.6	0.7	0.4	0.5	0.8	0.3	1.6	0.8	0.8	0.4	1.1	1.0	0.6	1.1	1.0	0.7	0.8
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	0.9	-0.0	-0.1	0.2	-0.0	0.5#	-0.5#	-0.0	0.0	-0.5	-0.3	-0.1	0.1	0.2	-0.9#	0.4	-0.0	-0.1	0.3	-0.7#
STD ERR OF DP		0.4	0.3	0.4	0.3	0.2	0.2	0.4	0.1	0.3	0.4	0.3	0.3	0.5	0.2	0.3	0.5	0.5	0.6	0.2
STD ERR OF P	0.2	0.5	0.3	0.5	0.4	0.4	0.2	0.4	0.2	0.3	0.3	0.3	0.4	0.5	0.0	0.5	0.5	0.5	0.6	0.2
AGE: 17																				
DELTA-P	0.9	-0.3	1.0	-0.4	-0.3	0.2	-0.2	0.9	-0.1	0.6	0.0	-0.3	0.1	0.1	-0.9#	-0.0	0.1	-0.7#	1.0	-0.5
STD ERR OF DP		0.3	0.5	0.3	0.3	0.2	0.2	0.9	0.1	0.7	0.5	0.3	0.2	0.4	0.2	0.3	0.6	0.3	0.7	0.4
STD ERR OF P	0.2	0.2	0.7	0.3	0.3	0.3	0.3	1.0	0.2	0.7	0.6	0.3	0.4	0.4	0.3	0.3	0.6	0.2	0.8	0.4

RC16
OBJ II

Do the following multiplication:

$\frac{1}{2} \times \frac{1}{4} =$

ANSWER ____________________

SCORING GUIDE
RC16
C20022-23

00 = No Response

10 = 1/8

20 = 2/8; 1/4

21 = 3/4

22 = 8

23 = 2/4; 1/2; 4/8

24 = Other Unacceptable

25 = 1/6

39 = I Don't Know.

Report #: RC16

NAEP #: C20022-23

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17
Package-Exercise:		05-26	09-02
National P-value:			
	RC16	62.25	73.51

Timing: (in seconds)

		13	17
	Stimulus:	2	2
	Response:	20	19
RC16	Exercise total:	22	21

EXERCISE: BC16

Do the following multiplication: 1/2 x 1/4 =

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	1.2	-1.1	0.9	0.7	-0.9	0.4	-0.4	1.0	-0.2	-1.2*	0.7	0.4	-0.3	0.5	0.4	-1.0	0.5	-0.7	2.2	-1.0
STD ERR OF DP		0.5	1.4	0.8	0.6	0.3	0.3	1.2	0.2	0.5	0.8	0.4	0.2	0.9	1.3	0.5	1.2	0.6	2.4	0.5
STD ERR OF P	0.5	0.1	1.9	0.8	0.2	0.8	0.4	1.3	0.5	0.0	1.2	0.7	0.6	0.8	1.3	0.2	1.2	0.3	2.8	0.1
AGE: 17																				
DELTA-P	1.0	1.4	-0.4	0.2	-0.9#	0.5	-0.4	1.0	-0.4	0.1	0.9	0.4	-0.4	0.6	-0.1	-0.3	0.9	-0.6	1.0	-1.0#
STD ERR OF DP		0.8	0.4	0.4	0.3	0.3	0.3	0.8	0.2	0.8	0.7	0.4	0.2	0.9	0.9	0.3	1.0	0.4	1.0	0.3
STD ERR OF P	0.3	1.0	0.3	0.4	0.1	0.5	0.2	0.9	0.2	0.9	0.9	0.5	0.2	0.9	0.9	0.3	1.1	0.4	1.1	0.0
RESPONSE: 10* AGE: 13	TEXT: 1/8																			
DELTA-P	62.3	0.5	-3.1	-0.4	3.3	-3.2#	3.2#	-5.0	1.5#	-10.5#	-4.4	2.1	4.9#	-10.1#	-2.6	-0.2	1.8	1.4	2.3	2.9
STD ERR OF DP		3.5	2.9	2.0	2.5	1.0	1.0	2.9	0.5	3.6	3.5	1.5	1.3	3.4	3.5*	2.4	4.9	4.5	3.7	3.9
P-VALUE	62.3	62.8	59.2	61.9	65.6	59.0	65.5	57.2	63.7	51.7	57.9	64.3	67.1	52.1	59.6	62.1	64.0	63.7	64.5	65.2
STD ERR OF P	1.5	4.1	3.5	2.1	2.6	2.0	1.6	3.0	1.7	3.9	3.8	2.0	2.1	3.6	3.6	2.9	5.5	4.5	4.2	3.8
AGE: 17																				
DELTA-P	73.5	-1.0	-2.4	-0.6	3.5	-0.9	0.9	-13.8#	2.8#	-12.7#	-13.0#	-0.1	7.1#	-11.9#	-0.3	-0.2	0.3	0.2	3.7	5.2
STD ERR OF DP		2.2	1.7	2.2	2.1	1.2	1.2	2.8	0.6	3.0	2.8	1.8	1.2	4.5	2.3	1.9	3.4	3.9	2.9	3.5
P-VALUE	73.5	72.5	71.2	72.9	77.0	72.6	74.4	59.7	76.3	60.9	60.5	73.4	80.6	61.6	73.2	73.4	73.8	73.7	77.2	78.7
STD ERR OF P	1.2	2.3	1.6	2.9	2.5	1.8	1.6	3.0	1.4	3.4	2.9	2.4	1.7	4.6	2.1	2.3	3.6	4.2	3.0	3.9
RESPONSE: 20 AGE: 13	TEXT: 2/8; 1/4																			
DELTA-P	6.5	-0.4	0.6	-0.8	0.7	-0.5	0.5	0.8	-0.2	5.4*	1.2	-0.7	-1.1	3.7	-1.0	0.0	-0.5	-0.3	-1.9	1.9
STD ERR OF DP		1.1	0.9	0.8	0.9	0.6	0.6	1.1	0.2	2.6	1.7	0.8	0.6	2.0	1.6	0.7	1.4	1.4	1.0	2.0
STD ERR OF P	0.5	1.2	1.1	1.0	1.0	0.7	0.8	1.2	0.6	2.7	1.7	0.8	0.9	2.0	1.7	0.8	1.5	1.5	1.2	2.1
AGE: 17																				
DELTA-P	5.0	1.0	-0.6	-0.4	0.1	-0.2	0.2	5.3#	-1.3#	6.9#	2.4	-0.3	-2.3#	0.1	0.5	0.5	-0.8	4.0*	-1.9	-1.4
STD ERR OF DP		0.8	0.8	0.8	0.9	0.4	0.4	1.5	0.3	2.1	1.5	0.6	0.4	1.7	1.2	0.6	1.0	1.9	1.2	1.3
STD ERR OF P	0.5	0.9	0.8	1.0	1.1	0.6	0.6	1.7	0.5	2.3	1.6	0.8	0.5	1.9	1.2	0.8	1.0	2.0	1.3	1.4
RESPONSE: 21 AGE: 13	TEXT: 3/4																			
DELTA-P	5.8	-2.6#	3.3*	-0.4	-0.7	0.5	-0.5	-4.1#	0.6#	1.3	-1.3	0.1	0.3	-1.9	-1.1	1.1	-1.1	-1.2	2.4	-1.3
STD ERR OF DP		0.9	1.5	1.1	1.1	0.4	0.4	0.8	0.2	2.1	1.4	0.7	0.6	1.2	2.1	1.3	1.7	1.2	1.7	1.3
STD ERR OF P	0.7	0.7	1.9	1.2	1.2	0.9	0.8	0.4	0.9	2.2	1.5	1.0	0.9	1.2	2.2	1.7	1.7	1.0	1.8	1.4
AGE: 17																				
DELTA-P	4.5	0.9	0.2	0.5	-1.4	0.0	-0.0	0.7	0.2	0.8	0.1	1.2	-1.0	0.5	1.3	0.6	-1.5	-0.5	-0.4	-0.5
STD ERR OF DP		1.4	0.9	1.0	0.8	0.5	0.5	1.3	0.3	1.3	1.2	0.9	0.5	1.6	1.8	0.8	1.1	1.5	1.3	1.3
STD ERR OF P	0.6	1.6	0.9	1.3	0.8	0.8	0.7	1.4	0.7	1.4	1.3	1.2	0.6	1.7	2.0	1.1	0.9	1.5	1.4	1.3
RESPONSE: 22 AGE: 13	TEXT: 8																			
DELTA-P	0.9	0.7	-0.2	-0.2	-0.2	0.3	-0.3	2.7#	-0.4*	0.9	-0.2	0.2	-0.4	1.5	-0.3	0.9*	-0.6*	-0.9#	-0.9#	-0.2
STD ERR OF DP		0.4	0.3	0.3	0.3	0.2	0.2	1.1	0.2	1.0	0.5	0.4	0.3	1.1	0.4	0.4	0.3	0.2	0.2	0.6
STD ERR OF P	0.2	0.5	0.3	0.3	0.4	0.3	0.2	1.2	0.2	1.1	0.5	0.5	0.3	1.2	0.4	0.5	0.3	0.0	0.0	0.7
AGE: 17																				
DELTA-P	0.4	-0.3#	-0.3#	0.3#	0.1	0.1	-0.1	0.9#	-0.1#	-0.2	0.9#	-0.1	-0.1	0.1	-0.2	-0.2	1.2#	0.0	-0.3#	-0.4#
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.3	0.2	0.1	0.3	0.3	0.1	0.1
STD ERR OF P	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.4	0.2	0.1	0.4	0.3	0.1	0.0
RESPONSE: 23 AGE: 13	TEXT: 2/4; 1/2; 4/8																			
DELTA-P	7.6	-2.2*	0.2	2.7*	-1.6	1.0	-1.0	-0.9	0.0	-2.0	-0.6	-1.1	0.6	-0.9	-1.2	-1.3	-0.8	2.0	1.0	2.4
STD ERR OF DP		1.1	1.1	1.2	1.1	0.7	0.7	1.3	0.2	1.7	1.5	0.8	0.8	1.4	2.0	0.9	1.7	2.2	1.6	2.2
STD ERR OF P	0.7	1.1	1.3	1.5	1.3	1.1	0.8	1.3	0.8	1.6	1.7	1.1	1.1	1.3	2.1	1.0	1.9	2.4	1.9	2.3

EXERCISE: RC16

Do the following multiplication: 1/2 x 1/4 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 23 AGE: 17	TEXT: 2/4; 1/2; 4/8																			
DELTA-P	5.5	-1.5	2.9*	-1.4	0.1	0.1	-0.1	-2.3	0.3	-0.1	0.8	0.6	-0.5	-0.5	-1.0	1.6	-2.2*	-0.4	0.8	-1.0
STD ERR OF DP		1.2	1.1	1.0	1.7	0.8	0.8	1.1	0.3	1.4	1.9	1.0	0.9	1.6	1.3	1.4	1.1	1.6	1.6	1.6
STD ERR OF P	0.8	1.2	1.2	1.0	2.2	1.3	0.8	1.0	0.9	1.4	2.0	0.9	1.4	1.6	1.2	2.0	1.0	1.5	1.6	1.6
RESPONSE: 24 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	10.9	2.7	-1.1	-1.2	0.2	1.3	-1.3	5.0*	-1.2*	4.7	3.0	-0.2	-3.1*	6.4*	3.0	0.6	0.4	-0.5	-2.2	-5.3*
STD ERR OF DP		1.7	1.6	1.1	1.6	0.9	0.9	1.6	0.4	2.7	2.1	0.9	0.8	2.7	2.5	1.3	2.3	2.2	2.3	1.4
STD ERR OF P	0.8	2.0	2.0	1.2	1.8	1.3	1.2	1.9	0.8	2.9	2.3	1.2	0.8	2.9	2.7	1.4	2.6	2.2	2.6	1.2
AGE: 17																				
DELTA-P	6.0	0.4	0.4	1.2	-1.9	-0.1	0.0	6.1*	-1.1*	2.2	5.6*	-0.6	-1.6*	8.0*	-1.5	-0.9	2.0	-1.5	-2.4*	-1.2
STD ERR OF DP		1.1	0.9	1.0	1.0	0.6	0.5	1.6	0.3	1.6	2.1	0.8	0.6	3.1	1.3	0.7	1.3	1.1	1.0	1.4
STD ERR OF P	0.6	1.2	1.0	1.2	1.3	0.9	0.7	1.8	0.6	1.7	2.4	1.0	0.7	3.3	1.2	0.9	1.5	1.0	1.0	1.4
RESPONSE: 25 AGE: 13	TEXT: 1/6																			
DELTA-P	4.1	1.3	-0.4	-0.1	-0.7	0.2	-0.2	0.7	-0.0	1.1	1.7	0.1	-0.4	0.6	2.7	-0.1	0.9	0.0	-2.2*	-0.5
STD ERR OF DP		0.9	0.7	0.7	0.8	0.4	0.4	1.2	0.2	1.8	1.9	0.6	0.4	1.4	1.5	0.6	1.4	1.1	0.8	1.0
STD ERR OF P	0.4	1.0	0.8	0.9	0.9	0.6	0.6	1.2	0.5	1.8	1.9	0.8	0.6	1.5	1.6	0.6	1.5	1.3	0.8	1.1
AGE: 17																				
DELTA-P	2.0	-1.1*	0.1	-0.2	1.1	0.3	-0.2	0.7	-0.1	-0.7	2.0	-0.6	-0.2	-0.1	0.0	-0.4	-1.4*	0.8	1.1	0.5
STD ERR OF DP		0.4	0.6	0.6	0.7	0.3	0.3	0.9	0.2	0.6	1.1	0.4	0.3	0.8	1.3	0.5	0.5	1.3	1.3	0.8
STD ERR OF P	0.4	0.2	0.7	0.7	1.0	0.5	0.5	1.0	0.4	0.6	1.3	0.5	0.5	0.8	1.3	0.6	0.4	1.4	1.4	0.9
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	1.7	1.0	-0.2	-0.4	-0.2	0.1	-0.1	-0.2	-0.2	0.3	-0.2	-0.7*	-0.5	0.3	0.1	0.0	-0.5	0.2	-0.7	1.1
STD ERR OF DP		0.7	0.4	0.4	0.4	0.2	0.2	0.7	0.1	1.2	0.7	0.3	0.3	0.9	1.0	0.5	0.7	0.7	0.6	1.3
STD ERR OF P	0.3	0.8	0.5	0.5	0.4	0.4	0.3	0.7	0.3	1.3	0.8	0.3	0.4	0.8	1.1	0.6	0.8	0.8	0.5	1.4
AGE: 17																				
DELTA-P	2.1	0.1	0.1	0.4	-0.6	0.2	-0.2	1.4	-0.3	3.7*	0.3	-0.4	-1.0*	3.1*	2.0	-0.7	1.6	-2.1*	-1.6*	-0.1
STD ERR OF DP		0.5	0.6	0.5	0.6	0.4	0.3	1.2	0.2	1.2	1.3	0.4	0.4	1.3	1.7	0.4	1.4	0.3	0.4	1.0
STD ERR OF P	0.3	0.5	0.7	0.6	0.8	0.4	0.5	1.4	0.3	1.3	1.5	0.4	0.4	1.3	1.9	0.4	1.6	0.0	0.3	1.1

NC17
C. II

If 23.8 is subtracted from 62.1, the result is

ANSWER ____________________.

Report #: NC17

NAEP #: C30001-234

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		05-20	03-06	03-11
National P-value:				
	NC17	60.48	78.04	73.68
Timing: (in seconds)				
	Stimulus:	6	6	6
	Response:	30	31	*
NC17	Exercise total:	36	37	*

*Time not limited by paced tape.

SCORING GUIDE
NC17
C30001-234

00 = No Response

10 = 38.3; 38 3/10

20 = Correct subtraction but misplaced decimal; e.g., 383; 3.83

21 = -38.3

22 = 49.3; 493; 4.93

23 = 85.9; 859; 8.59

24 = Other Unacceptable

25 = 48.3; 483; 4.83; 39.3; 393; 3.93

26 = 41.7; -41.7; 417; -417; 4.17; -4.17; 1.7; -1.7; 17; -17; 61.7; -61.7; 617; -617; 6.17; -6.17

39 = I Don't Know.

EXERCISE: RC17

If 23.8 is subtracted from 62.1, the result is

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.9	-0.3	0.6	-0.1	-0.3	0.4	-0.4	1.8*	-0.3*	-1.0*	0.1	0.1	-0.4	1.8*	-0.6	0.5	-0.4	-0.7*	-0.1	-0.4
STD ERR OF DP		0.3	0.5	0.3	0.4	0.2	0.2	0.6	0.1	0.2	0.6	0.4	0.2	0.8	0.3	0.5	0.4	0.3	0.5	0.4
STD ERR OF P	0.2	0.3	0.7	0.4	0.4	0.4	0.2	0.7	0.3	0.0	0.6	0.5	0.3	0.9	0.3	0.6	0.3	0.2	0.6	0.4
AGE: 17																				
DELTA-P	0.3	-0.2	0.3	0.1	-0.3	0.1	-0.1	0.9	-0.1	-0.3*	-0.0	0.1	-0.2	-0.3*	-0.3*	-0.2	0.1	-0.3*	0.5	0.5
STD ERR OF DP		0.2	0.4	0.2	0.1	0.1	0.1	0.7	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.4	0.1	0.4	0.7
STD ERR OF P	0.1	0.1	0.5	0.3	0.1	0.2	0.2	0.8	0.1	0.0	0.2	0.3	0.1	0.0	0.0	0.1	0.4	0.0	0.4	0.8
AGE: AD																				
DELTA-P	0.4	-0.2	-0.4	-0.4	1.1	0.5	-0.4	2.3	-0.3	-0.1	-0.1	0.5	-0.4	2.6	-0.4	-0.1	-0.4	-0.4	-0.4	-0.4
STD ERR OF DP		0.4	0.3	0.3	1.0	0.3	0.3	2.4	0.3	0.4	0.4	0.6	0.3	2.6	0.3	0.3	0.3	0.3	0.3	0.3
STD ERR OF P	0.3	0.2	0.0	0.0	1.3	0.6	0.0	2.7	0.1	0.4	0.3	0.9	0.0	2.9	0.0	0.3	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 13 TEXT: 38.3; 38 3/10																				
DELTA-P	60.5	-11.5*	-1.4	1.0	10.8*	-2.8*	2.8*	-26.9*	4.4*	-14.2*	-9.0*	-1.4	11.4*	-18.0*	-5.0	1.2	-2.2	2.3	-1.7	15.6*
STD ERR OF DP		3.3	2.5	2.6	2.4	1.2	1.2	2.7	0.8	4.2	4.2	1.6	1.4	6.4	3.8	2.4	3.5	3.5	2.9	3.5
P-VALUE	60.5	49.0	59.0	61.5	71.3	57.7	63.3	33.5	64.9	46.3	51.5	59.1	71.8	42.5	55.5	61.7	58.3	62.8	58.8	76.1
STD ERR OF P	1.6	3.5	2.8	3.3	2.6	2.1	2.0	3.0	1.6	4.6	4.5	2.3	1.6	6.8	4.3	3.0	3.7	3.6	2.9	3.5
AGE: 17																				
DELTA-P	78.0	-4.9*	0.8	1.3	2.0	-1.2	1.2	-16.3*	3.6*	-13.8*	-3.4	0.4	6.4*	-9.7*	-3.8	1.0	4.0*	-5.0	1.5	5.0*
STD ERR OF DP		2.0	1.4	1.4	1.6	1.0	1.0	3.1	0.7	3.9	2.1	1.7	1.1	3.4	2.4	1.5	1.8	2.6	2.4	2.2
P-VALUE	78.0	73.1	78.8	79.4	80.0	76.9	79.2	61.7	81.7	64.2	74.6	78.5	84.4	68.3	74.2	79.0	82.0	73.1	79.5	83.0
STD ERR OF P	0.9	2.5	1.4	1.6	1.8	1.6	1.2	3.1	1.1	4.2	2.2	1.8	1.2	3.5	2.5	1.9	1.8	2.6	2.5	2.3
AGE: AD																				
DELTA-P	73.6	-1.5	-2.6	1.0	3.1	3.4*	-3.1*	-27.5*	4.1*	-10.6*	-3.9	3.8*	10.6*	-21.3*	2.0	2.1	-0.7	2.9	-5.0	11.0*
STD ERR OF DP		2.3	1.9	2.3	1.9	1.0	0.9	4.4	0.7	2.3	2.7	1.7	1.9	4.3	3.3	1.6	3.5	4.5	4.4	3.6
P-VALUE	73.6	72.1	71.0	74.6	76.8	77.0	70.5	46.1	77.7	63.1	69.8	77.4	84.2	52.3	75.6	75.7	73.0	76.6	68.7	84.7
STD ERR OF P	1.2	2.4	2.2	2.9	2.1	1.5	1.6	4.5	1.1	2.8	2.7	1.9	2.2	4.4	3.1	1.9	3.7	4.5	4.8	3.8
RESPONSE: 20 AGE: 13 TEXT: Correct subtraction but misplaced decimal; e.g., 383; 3.83																				
DELTA-P	4.0	0.5	-1.0	0.7	-0.3	-0.9*	0.9*	1.2	-0.2	-0.1	4.3*	0.1	-1.6*	0.7	0.4	-0.6	1.8	-0.6	-0.0	-0.7
STD ERR OF DP		0.8	0.8	0.8	0.8	0.4	0.4	1.1	0.2	1.6	1.9	0.7	0.5	1.2	1.1	0.7	1.4	1.0	1.2	1.1
STD ERR OF P	0.5	0.9	0.9	1.1	0.8	0.6	0.7	1.1	0.6	1.7	2.2	0.9	0.5	1.2	1.3	0.9	1.6	1.0	1.3	1.1
AGE: 17																				
DELTA-P	2.5	1.3	-0.2	-0.7	-0.1	0.1	-0.1	-0.3	-0.3	0.6	-0.8	0.5	-0.4	-1.8*	1.0	0.6	0.5	0.5	-1.0	-0.8
STD ERR OF DP		0.9	0.6	0.6	0.6	0.5	0.5	0.8	0.2	1.9	0.9	0.8	0.5	0.6	1.7	0.7	0.8	1.3	0.7	0.8
STD ERR OF P	0.4	1.0	0.6	0.7	0.7	0.6	0.6	0.7	0.5	2.0	0.8	1.0	0.5	0.5	1.8	0.9	0.8	1.4	0.7	0.8
AGE: AD																				
DELTA-P	1.5	-0.3	0.7	-0.5	0.1	-0.1	0.1	0.5	-0.0	0.6	-1.0*	0.4	-0.6	1.4	0.5	-0.2	-0.3	0.4	0.2	-0.8
STD ERR OF DP		0.4	0.5	0.4	0.3	0.3	0.2	0.9	0.1	0.5	0.3	0.4	0.4	1.3	1.1	0.3	0.7	1.2	0.8	0.5
STD ERR OF P	0.2	0.4	0.6	0.5	0.3	0.4	0.3	0.9	0.3	0.7	0.4	0.5	0.4	1.3	1.2	0.3	0.7	1.4	0.9	0.5
RESPONSE: 21 AGE: 13 TEXT: -38.3																				
DELTA-P	0.2	-0.1	-0.1	0.2	-0.2	0.1	-0.1	-0.2	0.0	-0.2	-0.2	-0.1	0.2	-0.2	-0.1	-0.1	-0.2	-0.2	0.3	0.3
STD ERR OF DP		0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.4
STD ERR OF P	0.1	0.1	0.1	0.3	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.1	0.2	0.0	0.1	0.1	0.0	0.0	0.4	0.4
AGE: 17																				
DELTA-P	0.1	0.1	0.1	-0.1	-0.0	-0.1	0.1	-0.1	-0.0	0.2	-0.1	-0.0	0.0	-0.1	0.2	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.3	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.3	0.0	0.1	0.1	0.0	0.3	0.1	0.0	0.0	0.0	0.0

EXERCISE: RC17

If 23.8 is subtracted from 62.1, the result is

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad TEXT: -38.3																				
DELTA-P	0.3	-0.2	-0.2	0.6	-0.4	0.3	-0.3	-0.4	-0.3	-0.4	0.0	-0.2	0.6	-0.4	-0.4	-0.1	-0.4	-0.1	-0.8	1.4
STD ERR OF DP		0.3	0.3	0.6	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.7	0.3	0.3	0.3	0.3	0.4	0.3	1.5
STD ERR OF P	0.2	0.1	0.2	0.8	0.0	0.5	0.1	0.0	0.1	0.0	0.3	0.1	1.0	0.0	0.0	0.2	0.0	0.3	0.0	1.8
RESPONSE: 22 AGE: 13 TEXT: 49.3; 493; 4.93																				
DELTA-P	0.1	0.2	-0.1	0.1	-0.1	0.1	-0.1	-0.1	0.0	-0.1	0.2	-0.0	0.0	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	0.4
STD ERR OF DP		0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
STD ERR OF P	0.1	0.2	0.1	0.2	0.0	0.1	0.1	0.0	0.1	0.0	0.3	0.1	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.5
AGE: 17																				
DELTA-P	0.3	-0.1	-0.2	0.3	-0.2	0.2	-0.2	0.1	0.0	0.1	-0.2	0.6	-0.3*	-0.3*	-0.3*	-0.2	-0.2	1.8	0.0	-0.3*
STD ERR OF DP		0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.1	0.3	0.2	0.4	0.2	0.2	0.2	0.2	0.2	1.2	0.3	0.2
STD ERR OF P	0.2	0.2	0.1	0.5	0.2	0.3	0.1	0.4	0.2	0.3	0.1	0.5	0.0	0.0	0.0	0.1	0.2	1.3	0.3	0.0
AGE: Ad																				
DELTA-P	0.1	0.3	-0.1	-0.1	0.1	-0.1	0.1	-0.1	0.0	0.1	0.1	0.0	-0.1	-0.1	0.3	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.0	0.0	0.2	0.1	0.1	0.0	0.1	0.2	0.2	0.2	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0
RESPONSE: 23 AGE: 13 TEXT: 85.9; 859; 8.59																				
DELTA-P	0.9	0.5	0.1	-0.2	-0.4	0.2	-0.2	1.0*	-0.4#	1.0	-0.2	-0.3	-0.3	2.4*	0.7	-0.6#	-0.2	-0.1	0.3	-0.9#
STD ERR OF DP		0.5	0.4	0.2	0.3	0.2	0.2	0.8	0.2	1.4	0.6	0.3	0.2	1.0	0.8	0.2	0.5	0.4	0.6	0.2
STD ERR OF P	0.2	0.6	0.4	0.2	0.3	0.3	0.2	0.9	0.2	1.5	0.6	0.3	0.2	1.0	0.8	0.2	0.6	0.4	0.7	0.0
AGE: 17																				
DELTA-P	0.0	0.1	-0.0	-0.0	-0.0	-0.0	0.0	0.2	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
AGE: Ad																				
Response did not occur at this age.																				
RESPONSE: 24 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	19.2	6.0#	0.8	-1.4	-4.6#	2.8#	-2.8#	12.9#	-2.0#	7.3	1.6	2.9*	-5.9#	6.5*	3.6	0.5	4.3	-5.7#	0.0	-7.7#
STD ERR OF DP		1.9	1.6	1.3	1.6	0.9	0.9	2.8	0.5	4.2	3.0	1.2	1.1	2.9	2.6	1.6	2.4	1.8	2.1	1.6
STD ERR OF P	0.9	2.3	1.8	1.5	1.8	1.5	1.1	3.1	0.9	4.7	3.1	1.4	1.2	3.1	2.6	2.0	2.6	1.9	2.3	1.5
AGE: 17																				
DELTA-P	11.2	2.8	-0.2	-1.4	-0.6	1.5*	-1.4*	7.4#	-1.8#	5.9	1.0	-1.6	-1.9	8.5*	2.7	-1.2	-2.5	-3.8*	2.6	-2.7
STD ERR OF DP		2.0	1.3	1.1	1.4	0.7	0.7	2.6	0.5	3.2	2.2	1.1	1.0	4.0	2.9	1.2	1.6	1.9	2.1	1.8
STD ERR OF P	0.8	2.4	1.3	1.1	1.6	1.3	0.8	2.9	0.8	3.5	2.5	1.2	1.0	4.3	3.1	1.2	1.5	1.9	2.4	1.8
AGE: Ad																				
DELTA-P	11.9	-2.4	1.2	1.4	-1.0	-1.3	1.2	9.3#	-1.0*	3.4*	0.9	-1.3	-3.1	5.8	-4.0*	-0.4	-3.8	2.4	6.9*	-5.0#
STD ERR OF DP		1.4	1.5	1.3	1.3	0.9	0.9	3.3	0.4	1.5	1.6	1.2	1.7	2.9	1.8	1.2	2.0	3.2	2.9	1.6
STD ERR OF P	0.8	1.5	1.9	1.5	1.4	1.2	1.2	3.5	0.9	1.8	1.6	1.6	1.7	3.1	1.7	1.4	2.0	3.4	2.9	1.6
RESPONSE: 25 AGE: 13 TEXT: 48.3; 483; 4.83; 39.3; 393; 3.93																				
DELTA-P	3.3	1.0	-0.5	0.3	-0.8	0.3	-0.3	0.8	0.1	2.7	1.3	0.3	-0.2	0.1	1.7	-0.5	-1.1	2.4	0.1	-2.0#
STD ERR OF DP		0.6	0.6	0.7	0.7	0.3	0.3	1.1	0.2	2.0	1.4	0.6	0.4	1.2	1.2	0.5	0.7	1.2	1.2	0.7
STD ERR OF P	0.4	0.7	0.6	0.9	0.8	0.5	0.5	1.2	0.5	2.1	1.4	0.8	0.5	1.3	1.2	0.6	0.7	1.3	1.3	0.7

EXERCISE: BC17

If 23.8 is subtracted from 62.1, the result is

RESPONSE: 25 AGE: 17 TEXT: 48.3; 483; 4.83; 39.3; 393; 3.93

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.5	-0.5	-0.9	1.2	-0.3	-0.2	0.2	1.5	-0.3	1.8	0.1	0.4	-1.0	0.1	-2.6#	0.8	-1.4	4.5	-1.2	-0.8
STD ERR OF DP		0.9	0.7	1.1	0.9	0.4	0.4	1.2	0.3	1.9	1.0	0.6	0.5	1.1	0.7	0.8	0.8	3.2	0.9	1.5
STD ERR OF P	0.6	1.0	0.8	1.4	1.0	0.8	0.6	1.3	0.6	2.1	1.0	0.9	0.7	1.1	0.4	0.9	0.6	3.6	0.8	1.6

AGE: 26

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	4.9	1.5	1.5	-0.4	-2.5#	-0.2	0.2	4.5	-0.4	1.0	1.8	-0.4	-1.8*	2.1	-0.1	-1.0	2.9	-1.7	2.8	-2.3
STD ERR OF DP		1.0	1.2	1.1	0.8	0.6	0.6	2.3	0.3	1.2	1.9	0.9	0.8	2.1	1.7	0.7	2.5	1.8	2.3	1.4
STD ERR OF P	0.6	1.1	1.4	1.4	0.7	0.9	0.9	2.5	0.7	1.6	1.9	1.0	0.8	2.2	1.7	0.7	2.8	1.7	2.5	1.4

RESPONSE: 26 AGE: 13 TEXT: 41.7; -41.7; 417; -417; 4.17; -4.17; 1.7; -1.7; 17; -17; 61.7; -61.7; 617; -617; 6.17; -6.17

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	6.0	2.8*	0.6	-0.3	-2.8#	-0.9	0.9	5.6#	-1.2#	4.2	2.1	-1.5*	-2.0#	6.0	-1.4	-0.1	-0.5	1.7	0.4	-4.0#
STD ERR OF DP		1.3	0.9	1.0	0.8	0.5	0.5	1.7	0.3	2.3	1.7	0.7	0.6	3.0	1.7	0.7	1.1	1.6	1.3	1.1
STD ERR OF P	0.6	1.6	0.9	1.3	0.7	0.7	0.9	2.0	0.6	2.3	1.9	0.9	0.7	3.3	1.9	0.7	1.2	1.8	1.3	0.9

AGE: 17

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.8	0.3	0.3	-0.1	-0.4	-0.5	0.5	4.5#	-0.7#	1.4	0.6	0.5	-1.1#	2.3	2.3*	-0.5	0.3	0.6	-1.0	-1.8#
STD ERR OF DP		0.5	0.6	0.4	0.5	0.3	0.3	1.6	0.2	1.4	0.9	0.4	0.3	1.9	1.0	0.4	0.8	1.5	0.5	0.3
STD ERR OF P	0.3	0.5	0.7	0.5	0.7	0.3	0.5	1.7	0.2	1.5	0.9	0.6	0.3	2.0	1.0	0.5	0.8	1.6	0.5	0.8

AGE: 26

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.7	0.7	-0.3	0.1	-0.4	-0.4*	0.4*	1.2	-0.2*	0.5	0.1	-0.4	-0.2	0.7	0.0	-0.1	0.8	-0.1	-0.2	-0.7#
STD ERR OF DP		0.5	0.2	0.3	0.3	0.2	0.2	1.0	0.1	0.4	0.4	0.2	0.4	0.9	0.5	0.2	0.8	0.6	0.5	0.2
STD ERR OF P	0.2	0.6	0.2	0.3	0.3	0.2	0.3	1.1	0.2	0.4	0.4	0.2	0.4	1.0	0.5	0.3	0.9	0.6	0.5	0.8

RESPONSE: 39 AGE: 13 TEXT: I Don't Know.

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	4.9	0.9	1.0	-0.4	-1.4	0.9	-0.9	3.1*	-0.4*	0.4	-0.2	-0.1	-1.2*	0.8	0.9	-0.5	-1.4	1.8	0.9	-0.7
STD ERR OF DP		1.0	1.3	0.8	1.1	0.5	0.5	1.3	0.2	1.8	1.5	0.8	0.6	2.1	1.7	0.8	1.2	1.7	1.5	1.2
STD ERR OF P	0.6	1.1	1.6	0.9	1.2	0.9	0.7	1.5	0.7	1.8	1.5	1.0	0.8	2.1	1.8	0.9	1.3	1.9	1.7	1.3

AGE: 17

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.2	1.1	-0.0	-0.7	-0.1	0.1	-0.1	2.1	-0.4	4.1*	2.8#	-0.9*	-1.5#	1.4	1.8	-0.4	-0.7	1.9	-1.3#	0.4
STD ERR OF DP		0.8	0.5	0.4	0.6	0.4	0.3	1.3	0.2	2.0	1.1	0.4	0.3	1.5	1.2	0.5	0.5	1.6	0.5	0.9
STD ERR OF P	0.3	0.9	0.5	0.5	0.8	0.5	0.5	1.4	0.3	2.2	1.2	0.3	0.3	1.6	1.3	0.5	0.4	1.7	0.4	1.0

AGE: 26

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	6.5	2.3	0.3	-1.8	-0.2	-2.0#	1.8#	10.2#	-2.0#	5.8#	2.1	-2.4#	-4.9#	9.3*	2.1	-0.4	2.0	-3.3#	-3.7#	-3.0*
STD ERR OF DP		1.7	1.2	0.9	1.0	0.8	0.7	3.2	0.5	1.6	1.5	0.9	0.9	3.8	2.6	0.7	2.5	1.2	1.1	1.5
STD ERR OF P	0.7	2.0	1.5	1.0	0.9	0.9	1.1	3.6	0.4	2.1	1.5	1.0	0.6	4.2	2.8	0.9	2.7	1.1	1.0	1.4

RC18
OBJ IV

In a school election with three candidates, Joe received 120 votes, Mary received 50 votes, and George received 30 votes. What percent of the total number of votes did Joe receive?

ANSWER ______________________

SCORING GUIDE
RC18
C50005-234

00 = No Response

10 = 60%; 60

11 = Correct process with no answer or wrong answer; e.g., 120 divided by 200; .60; .6

20 = Equivalent fraction; e.g., 120/200; 3/5; 6/10; 24/40; etc.; attempt to reduce 120/200

21 = 5/3%; 1.67%; any attempt to divide 200 by 120

22 = 80%; 80; 4/5

23 = 40%; 40; 2/5

24 = Other Unacceptable

25 = 120%; 120

26 = 66 2/3%; 66 2/3; 2/3; 66; 67; 200/3; attempt to divide 200 by 3; attempt to divide 80 by 120

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

Report #: RC18

NAEP #: C50005-234

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		03-16	01-18	01-12
National P-value:				
	RC18	17.35	44.52	47.37
Timing: (in seconds)				
	Stimulus:	14	14	14
	Response:	46	45	*
RC18	Exercise total:	60	59	*

*Time not limited by paced tape.

EXERCISE: RC18

In a school election with 3 candidates, Joe received 120 votes, Mary received 50 votes and George received 30 votes. What percent of the total number of votes did Joe receive?

RESPONSE: 00 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	2.1	0.0	-0.0	1.0	-1.1	0.6	-0.5	0.8	-0.0	1.7	-0.5	-0.5	-0.4	0.1	7.0	-1.6*	-0.3	0.1	1.1	-1.2
STD ERR OF DP		0.9	1.0	1.7	0.8	0.3	0.3	1.0	0.2	1.7	1.0	0.6	0.4	1.2	6.6	0.7	1.2	1.0	2.0	0.9
STD ERR OF P	0.7	0.7	1.0	2.3	0.5	0.9	0.7	0.8	0.9	1.8	1.6	0.6	1.0	1.0	7.3	0.3	1.0	0.8	2.1	0.6
AGE: 17																				
DELTA-P	1.2	0.6	-0.2	-0.8*	0.6	0.0	-0.0	3.2	-0.4	0.1	-0.6	-0.6	-0.4	2.2	-0.7	-0.4	-0.4	0.9	-0.7	0.8
STD ERR OF DP		0.5	0.4	0.3	0.7	0.2	0.2	1.8	0.3	0.6	0.5	0.4	0.3	1.7	0.5	0.3	0.5	1.1	0.5	0.8
STD ERR OF P	0.3	0.6	0.3	0.2	1.0	0.3	0.4	2.0	0.2	0.6	0.5	0.3	0.3	1.9	0.4	0.3	0.4	1.4	0.4	0.8
AGE: Ad																				
DELTA-P	0.3	-0.0	-0.2	0.1	0.0	0.0	-0.0	0.3	-0.0	0.0	0.3	-0.1	-0.3*	0.2	0.2	0.2	-0.1	-0.3*	-0.3*	-0.3*
STD ERR OF DP		0.3	0.2	0.3	0.2	0.2	0.1	0.5	0.1	0.2	0.5	0.2	0.1	0.5	0.4	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.2	0.4	0.2	0.2	0.2	0.6	0.2	0.2	0.6	0.2	0.0	0.5	0.5	0.3	0.2	0.0	0.0	0.0

RESPONSE: 10* TEXT: 60%; 60 (Only category 10 was considered to be the acceptable response.)

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	17.4	-6.0#	-3.7*	1.6	7.4#	3.3#	-3.1#	-13.5#	2.9#	-12.5#	-3.9	-1.9	7.5#	-12.3#	-7.1#	-2.3	2.8	0.7	1.0	14.3#
STD ERR OF DP		1.5	1.7	1.5	2.3	0.9	0.9	1.6	0.5	2.1	3.2	1.1	1.0	1.9	1.8	1.2	2.8	2.4	3.2	3.1
P-VALUE	17.4	11.4	13.7	19.0	24.8	20.7	14.3	3.8	20.2	4.8	13.4	15.5	24.9	5.1	10.2	15.1	20.2	18.1	18.3	31.7
STD ERR OF P	1.1	1.4	2.1	1.6	2.9	1.3	1.5	1.4	1.2	1.7	3.3	1.3	1.7	1.6	1.8	1.3	3.0	2.5	3.4	3.4
AGE: 17																				
DELTA-P	44.5	-7.9*	-2.4	5.4	3.3	8.9#	-8.5#	-28.8#	5.4#	-18.1#	-11.0#	-3.7*	11.7#	-26.2#	-7.6	3.0	2.9	-5.4	-3.8	16.8#
STD ERR OF DP		3.2	3.8	3.0	2.8	1.4	1.5	2.8	0.7	4.4	3.3	1.8	1.5	3.1	7.1	1.6	3.6	5.7	3.3	3.1
P-VALUE	44.5	36.6	42.2	50.0	47.9	53.4	36.0	15.7	49.9	26.5	33.5	40.8	56.3	18.4	36.9	47.5	47.4	39.1	40.7	61.3
STD ERR OF P	1.9	3.4	4.8	3.4	3.0	2.3	2.2	2.7	1.9	4.6	3.6	2.2	2.1	3.2	7.5	2.2	4.1	5.8	3.6	3.1
AGE: Ad																				
DELTA-P	47.4	-5.7	1.3	1.6	1.8	13.1#	-12.2#	-29.2#	5.2#	-15.8#	-3.5	1.9	21.3#	-20.2#	-2.0	-1.6	3.0	2.6	0.4	16.3#
STD ERR OF DP		3.3	2.7	2.2	3.0	1.3	1.3	3.0	0.7	2.3	3.0	1.8	2.5	4.0	5.3	1.8	4.9	5.3	4.1	3.0
P-VALUE	47.4	41.7	48.6	49.0	49.2	60.5	35.2	18.2	52.6	31.6	43.9	49.3	68.6	27.1	45.3	45.8	50.3	50.0	47.8	63.7
STD ERR OF P	1.6	3.8	3.2	2.4	3.6	2.2	1.8	3.0	1.6	2.9	3.4	2.4	2.1	3.6	5.6	2.5	5.5	5.6	4.4	2.7

RESPONSE: 11 TEXT: Correct process with no answer or wrong answer; e.g., 120 divided by 200; .60; .6

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	0.3	0.1	-0.3*	0.2	-0.0	-0.1	0.1	0.0	0.0	-0.3#	-0.3#	0.1	0.1	-0.3#	-0.3#	0.3	-0.2	-0.3#	-0.1	0.3
STD ERR OF DP		0.2	0.1	0.3	0.2	0.1	0.1	0.3	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.5
STD ERR OF P	0.1	0.2	0.0	0.4	0.2	0.1	0.2	0.3	0.2	0.0	0.0	0.3	0.2	0.0	0.0	0.3	0.1	0.0	0.2	0.5
AGE: 17																				
DELTA-P	0.6	0.2	0.1	-0.1	-0.2	-0.3	0.3	0.2	-0.0	-0.2	-0.2	-0.0	-0.0	-0.2	-0.2	0.5*	0.1	-0.5*	-0.6#	-0.4
STD ERR OF DP		0.4	0.3	0.2	0.2	0.2	0.2	0.5	0.1	0.5	0.3	0.2	0.2	0.4	0.4	0.2	0.5	0.2	0.2	0.2
STD ERP OF P	0.2	0.4	0.4	0.2	0.2	0.2	0.3	0.5	0.2	0.5	0.4	0.2	0.2	0.5	0.4	0.3	0.5	0.2	0.1	0.2
AGE: Ad																				
DELTA-P	0.3	0.3	-0.3	-0.3	0.4	-0.2	0.2	0.0	0.0	-0.1	0.1	-0.0	0.2	0.1	-0.3	0.2	0.1	-0.3	-0.3	-0.3
STD ERR OF DP		0.2	0.1	0.1	0.4	0.1	0.1	0.3	0.0	0.2	0.3	0.1	0.2	0.3	0.1	0.2	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.0	0.5	0.1	0.3	0.3	0.2	0.1	0.3	0.2	0.3	0.3	0.0	0.3	0.3	0.0	0.0	0.0

RESPONSE: 20 TEXT: Equivalent fraction; e.g., 120/200; 3/5; 6/10; 24/40; etc.; attempt to reduce 120/200

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	1.6	-0.5	0.5	0.3	-0.4	-0.2	0.2	-1.6#	0.4#	-1.6#	-1.1*	0.1	0.6	-0.3	-0.2	0.4	-0.0	-0.4	0.9	-1.2#
STD ERR OF DP		0.4	0.8	0.7	0.5	0.4	0.4	0.4	0.1	0.4	0.5	0.3	0.3	0.9	0.8	0.5	0.8	0.8	1.7	0.4
STD ERR OF P	0.4	0.3	1.0	0.9	0.4	0.4	0.6	0.0	0.5	0.0	0.3	0.5	0.6	0.9	0.9	0.7	0.8	0.7	1.9	0.3
AGE: 17																				
DELTA-P	0.5	-0.1	0.0	0.2	-0.1	-0.2	0.2	0.1	0.0	0.7	0.0	0.2	-0.3	1.0	-0.5#	0.2	-0.5#	-0.2	-0.1	-0.1
STD ERR OF DP		0.3	0.3	0.3	0.3	0.2	0.2	0.6	0.1	0.8	0.5	0.2	0.2	0.9	0.2	0.2	0.2	0.3	0.4	0.4
STD ERR OF P	0.2	0.4	0.4	0.3	0.3	0.2	0.3	0.7	0.2	0.9	0.4	0.4	0.1	1.0	0.0	0.3	0.0	0.2	0.4	0.4

EXERCISE: BC18

In a school election with 3 candidates, Joe received 120 votes, Mary received 50 votes and George received 30 votes. What percent of the total number of votes did Joe receive?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad TEXT: Equivalent fraction; e.g., 120/200; 3/5; 6/10; 24/40; etc.; attempt to reduce 120/200																				
DELTA-P	2.8	0.1	-1.4*	0.3	1.2	-0.5	0.5	-2.3#	0.4#	0.5	0.9	-0.3	-0.4	-1.3	0.4	0.2	-1.0	-1.5	-0.1	2.0
STD ERR OF DP		0.8	0.7	0.7	1.0	0.4	0.4	0.7	0.1	0.9	1.0	0.9	0.7	1.0	2.5	0.6	0.8	1.3	1.3	1.6
STD ERR OF P	0.5	0.8	0.7	0.9	1.2	0.6	0.7	0.5	0.5	0.9	1.2	1.0	0.9	0.9	2.6	0.7	0.9	1.3	1.4	1.8
RESPONSE: 21 AGE: 13 TEXT: 5/3%; 1.67%; any attempt to divide 200 by 120																				
DELTA-P	0.3	-0.2	-0.1	-0.0	0.3	-0.1	0.1	0.0	0.0	-0.3*	-0.3*	0.2	0.1	-0.3*	-0.3*	-0.1	0.6	0.1	-0.0	-0.0
STD ERR OF DP		0.2	0.2	0.2	0.4	0.2	0.1	0.3	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.6	0.4	0.3	0.3
STD ERR OF P	0.2	0.2	0.1	0.2	0.5	0.2	0.3	0.3	0.2	0.0	0.0	0.3	0.2	0.0	0.0	0.2	0.7	0.4	0.3	0.3
AGE: 17																				
DELTA-P	1.0	0.3	-0.6*	-0.3	0.7	-0.6#	0.5#	-0.3	0.1	-0.6	-0.9#	0.4	0.2	-0.4	0.2	0.4	-0.5	-0.9#	0.9	-1.0#
STD ERR OF DP		0.3	0.3	0.3	0.4	0.2	0.2	0.5	0.1	0.4	0.2	0.3	0.2	0.6	0.9	0.2	0.3	0.2	0.8	0.2
STD ERR OF P	0.2	0.3	0.3	0.3	0.5	0.2	0.3	0.5	0.2	0.3	0.1	0.4	0.3	0.6	0.9	0.4	0.3	0.1	0.8	0.0
AGE: Ad																				
DELTA-P	0.5	-0.4*	-0.2	0.2	0.3	-0.3	0.3	-0.5#	0.1*	-0.4*	-0.4	0.6	0.0	-0.5#	0.7	0.2	-0.3	-0.5#	0.3	-0.5#
STD ERR OF DP		0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.0	0.2	0.2	0.4	0.3	0.2	0.7	0.3	0.3	0.2	0.5	0.2
STD ERR OF P	0.2	0.1	0.3	0.5	0.4	0.1	0.3	0.0	0.2	0.1	0.1	0.5	0.3	0.0	0.8	0.4	0.2	0.0	0.5	0.0
RESPONSE: 22 AGE: 13 TEXT: 80%; 80; 4/5																				
DELTA-P	7.5	0.3	-2.1*	-0.2	2.1	-1.6#	1.5#	-1.8	0.5	-1.0	-1.6	-0.1	0.3	-3.6#	-3.2	2.2*	-2.9*	1.1	1.6	-1.0
STD ERR OF DP		1.2	1.0	1.0	1.3	0.5	0.5	1.3	0.2	2.1	1.7	0.9	0.7	1.5	1.7	1.0	1.3	1.5	1.6	1.4
STD ERR OF P	0.6	1.3	1.0	1.1	1.5	0.6	1.0	1.3	0.7	2.1	1.7	1.1	1.0	1.4	1.7	1.4	1.3	1.6	1.6	1.6
AGE: 17																				
DELTA-P	7.1	-0.2	0.4	0.4	-0.6	-0.2	0.2	1.1	-0.2	-0.3	2.3	0.5	-1.0	-0.1	0.6	-0.3	-1.0	0.5	3.6	-2.7*
STD ERR OF DP		0.9	1.1	0.9	1.1	0.6	0.5	1.6	0.2	1.8	1.4	0.8	0.5	1.6	1.8	0.8	1.4	2.1	2.2	1.3
STD ERR OF P	0.6	0.8	1.4	1.0	1.3	0.8	0.8	1.6	0.7	1.9	1.5	1.0	0.8	1.6	1.8	0.9	1.4	2.2	2.5	1.3
AGE: Ad																				
DELTA-P	3.1	1.1	0.3	-0.3	-1.0	-1.5#	1.4#	1.9	-0.5*	1.3	1.2	-1.3#	-0.1	3.0	-0.2	-0.9*	1.5	0.7	-0.3	-0.9
STD ERR OF DP		0.9	0.7	0.6	0.6	0.4	0.4	1.5	0.2	0.7	1.0	0.5	0.7	1.6	1.0	0.4	1.3	1.6	1.4	1.0
STD ERR OF P	0.4	1.0	0.8	0.8	0.6	0.4	0.7	1.5	0.4	0.9	1.1	0.5	0.9	1.7	1.0	0.5	1.4	1.7	1.5	1.0
RESPONSE: 23 AGE: 13 TEXT: 40%; 40; 2/5																				
DELTA-P	8.9	2.2*	0.4	-0.8	-1.4	-2.4#	2.2#	3.8*	-0.7	1.9	1.1	2.0	-3.4#	0.1	2.7	0.0	-0.3	4.2	-2.4	-2.6
STD ERR OF DP		1.1	1.4	1.8	1.1	0.8	0.7	1.8	0.4	2.6	2.8	1.0	0.8	2.5	2.2	0.9	1.9	4.4	1.0	1.6
STD ERR OF P	0.8	1.0	1.5	2.3	1.1	0.9	1.3	1.9	0.9	2.5	3.0	1.4	0.9	2.4	2.4	1.1	2.0	4.8	1.8	1.6
AGE: 17																				
DELTA-P	4.9	0.9	0.4	-1.3	0.2	-0.7	0.7	7.8#	-1.3#	2.1	1.0	0.6	-2.3#	7.6#	-0.3	0.2	-1.9*	1.6	-1.5	-3.2#
STD ERR OF DP		1.0	0.9	0.9	1.0	0.6	0.5	2.1	0.4	1.7	1.3	0.8	0.5	2.7	2.3	0.7	0.9	1.9	1.2	0.9
STD ERR OF P	0.5	1.2	1.0	1.0	1.2	0.7	0.9	2.4	0.5	1.7	1.3	0.9	0.5	2.9	2.4	0.8	0.9	2.1	1.3	0.8
AGE: Ad																				
DELTA-P	5.3	-0.1	1.7	-0.4	-1.3	-1.3	1.2	6.2*	-1.1#	2.5	-1.0	-0.2	-2.8#	4.6	-1.4	-0.6	0.9	1.4	-1.0	-1.3
STD ERR OF DP		1.2	1.6	1.1	1.0	0.7	0.7	2.9	0.4	1.3	1.2	1.0	0.8	2.4	1.5	0.7	2.4	2.4	2.1	1.5
STD ERR OF P	0.7	1.3	2.0	1.2	0.9	1.0	1.0	3.2	0.7	1.7	1.2	1.2	0.8	2.6	1.4	0.9	2.8	2.5	2.3	1.6
RESPONSE: 24 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	35.8	0.8	4.8*	-0.4	-5.4#	1.3	-1.2	12.5#	-2.9#	9.9	8.1*	1.1	-4.3#	8.4*	1.0	0.2	-7.3#	-0.6	1.0	-0.3
STD ERR OF DP		2.1	2.1	2.0	2.0	1.2	1.1	2.6	0.6	5.1	3.9	1.5	1.0	3.7	2.9	1.7	2.4	3.2	3.9	2.6
STD ERR OF P	1.2	2.2	2.4	2.5	2.4	1.7	1.7	2.8	1.2	5.1	4.1	1.9	1.6	3.8	3.0	2.3	2.2	3.6	4.0	2.8

EXERCISE: RC18

In a school election with 3 candidates, Joe received 120 votes, Mary received 50 votes and George received 30 votes. What percent of the total number of votes did Joe receive?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CIT	URBAN FRINGE	HIGH METRO
RESPONSE: 24 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	23.1	4.5*	1.6	-2.6	-2.5	-3.9#	3.8#	11.6#	-2.1#	5.1	4.4	2.5*	-4.6#	8.5#	9.3	-1.2	-4.4	0.2	0.7	-3.0
STD ERR OF DP		2.0	2.1	1.7	1.7	0.8	0.8	3.4	0.5	3.6	3.0	1.2	1.0	2.9	5.9	1.2	2.3	3.6	3.3	2.5
STD ERR OF P	1.1	2.2	2.7	1.9	1.9	1.4	1.3	3.5	1.1	3.9	3.2	1.7	1.2	3.1	6.3	1.3	2.3	3.8	3.7	2.5
AGE: Ad																				
DELTA-P	24.3	4.9	-0.0	-3.4	-0.2	-3.3#	3.1#	15.4#	-2.8#	8.7#	1.9	-0.7	-10.7#	9.2*	2.2	0.9	-2.3	-2.0	2.7	-10.1#
STD ERR OF DP		2.5	1.8	2.0	2.5	1.1	1.0	4.2	0.7	2.1	2.4	1.6	2.1	4.5	3.0	1.4	3.5	3.2	4.2	2.3
STD ERR OF P	1.3	2.8	1.9	2.4	2.9	1.7	1.6	4.5	1.2	2.7	2.7	2.3	1.4	4.5	3.1	1.8	3.9	3.4	4.5	2.3
RESPONSE: 25 AGE: 13 TEXT: 120%; 120																				
DELTA-P	8.2	4.1#	-0.6	-2.2*	-0.6	1.0	-0.9	10.6#	-1.9#	4.4*	3.6	-0.6	-2.4#	12.5#	-1.7	-0.7	1.4	0.2	-2.6	-4.1#
STD ERR OF DP		1.4	0.9	1.0	1.4	0.7	0.6	1.8	0.4	2.0	2.1	0.8	0.7	2.5	2.0	1.0	2.2	1.9	1.9	1.0
STD ERR OF P	0.7	1.6	0.8	1.0	1.7	0.9	0.9	1.9	0.7	2.1	2.2	1.2	0.8	2.7	2.0	1.1	2.2	2.0	2.1	1.0
AGE: 17																				
DELTA-P	3.5	0.5	0.8	-1.8#	0.6	0.9	-0.8	2.6	-0.8#	9.8#	0.6	-0.5	-1.6#	5.0	0.5	-1.3*	0.0	2.5	-0.8	-0.3
STD ERR OF DP		1.3	0.9	0.6	0.8	0.6	0.5	1.6	0.3	3.6	1.5	0.7	0.5	3.7	1.6	0.5	1.1	2.2	0.9	1.3
STD ERR OF P	0.5	1.6	1.1	0.5	0.8	0.9	0.6	1.7	0.5	3.9	1.6	0.8	0.5	3.9	1.6	0.5	1.1	2.3	1.0	1.4
AGE: Ad																				
DELTA-P	2.1	-0.6	-0.1	0.1	0.5	0.3	-0.3	2.8	-0.5	0.6	-0.8	0.1	0.1	3.7	0.6	-0.1	-0.9	-1.2	-1.0	-0.5
STD ERR OF DP		0.6	0.7	0.5	0.8	0.4	0.3	2.0	0.3	0.8	0.7	0.5	0.8	2.5	1.0	0.5	0.6	0.8	1.2	0.9
STD ERR OF P	0.4	0.6	0.8	0.6	1.0	0.6	0.5	2.1	0.4	0.9	0.7	0.7	0.9	2.7	1.0	0.6	0.6	0.7	1.2	0.9
RESPONSE: 26 AGE: 13 TEXT: 66 2/3%; 66 2/3; 2/3; 66; 67; 200/3; attempt to divide 200 by 3; attempt to divide 80 by 120																				
DELTA-P	8.3	-1.7	0.4	0.7	0.3	-1.0	0.9	-6.2#	1.1#	-2.1	-4.9#	0.2	1.3*	-4.7#	1.8	0.8	1.5	-0.3	-1.4	-0.1
STD ERR OF DP		1.1	1.4	1.4	1.1	0.6	0.6	1.0	0.2	1.9	1.2	0.7	0.6	1.5	2.4	0.9	2.4	2.1	2.1	1.8
STD ERR OF P	0.7	1.0	1.7	1.7	1.2	1.0	0.9	0.8	0.8	1.9	1.1	1.1	0.9	1.4	2.6	1.1	2.6	2.1	2.3	1.9
AGE: 17																				
DELTA-P	6.2	0.9	-0.9	0.8	-0.5	-1.4#	1.3#	0.0	0.2	0.5	0.6	1.6	-1.0	1.2	-1.0	-0.0	0.8	-0.2	1.9	-2.9#
STD ERR OF DP		1.1	1.1	0.8	0.9	0.5	0.5	1.4	0.2	1.5	1.6	1.1	0.7	1.6	2.2	0.7	1.3	1.8	2.1	1.2
STD ERR OF P	0.6	1.2	1.3	0.8	1.0	0.8	0.7	1.4	0.6	1.5	1.6	1.4	0.8	1.6	2.2	0.9	1.5	1.9	2.3	1.0
AGE: Ad																				
DELTA-P	5.7	-0.0	-0.4	0.2	0.2	-1.8#	1.7#	-0.0	-0.1	-0.2	-0.8	1.7	-2.1*	-0.9	-1.8	1.2*	-1.6	-2.1	1.4	-0.1
STD ERR OF DP		1.1	0.8	0.6	0.9	0.5	0.5	1.9	0.3	1.1	1.1	1.0	0.9	1.3	1.7	0.6	1.2	1.3	1.7	1.3
STD ERR OF P	0.5	1.3	0.9	0.6	1.1	0.6	0.8	2.0	0.5	1.1	1.2	1.2	0.9	1.3	1.8	0.7	1.2	1.2	1.8	1.5
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	9.7	0.9	0.7	-0.3	-1.2	-0.8	0.7	-4.7#	0.7*	-0.0	-0.2	-0.5	0.5	0.6	0.4	0.8	4.7	-4.9#	1.0	-4.1#
STD ERR OF DP		1.6	1.1	1.1	1.1	0.8	0.7	1.0	0.3	2.4	2.5	1.1	0.9	1.9	1.9	1.0	2.5	1.2	2.2	1.4
STD ERR OF P	0.7	1.9	1.2	1.2	1.2	0.9	1.1	1.0	0.8	2.6	2.8	1.2	1.1	1.9	1.9	1.4	2.8	1.2	2.3	1.4
AGE: 17																				
DELTA-P	7.3	0.6	0.9	0.1	-1.4	-2.6#	2.5#	2.5	-0.8#	0.8	3.6*	-1.0	-0.7	1.3	-0.3	-1.0	5.1#	1.4	0.5	-4.1#
STD ERR OF DP		1.3	1.3	[illegible]	1.1	0.7	0.7	1.4	0.3	2.3	1.6	0.9	0.6	2.0	2.4	0.8	1.9	2.5	1.6	1.2
STD ERR OF P	0.7	1.4	1.7	[illegible]	1.3	0.8	1.0	1.6	0.7	2.4	1.5	1.1	0.9	1.9	2.5	1.1	2.1	2.7	1.7	1.1
AGE: Ad																				
DELTA-P	8.2	0.5	-0.8	2.0	-1.9*	-4.5#	4.2#	5.5	-0.7	3.0*	2.1	-1.7	-5.3#	2.2	1.7	0.2	0.6	3.2	-1.9	-4.4#
STD ERR OF DP		0.9	1.0	1.3	0.8	0.8	0.8	2.9	0.4	1.5	1.5	0.9	0.8	2.3	1.5	0.9	2.1	3.4	2.0	1.5
STD ERR OF P	0.7	0.9	1.1	1.8	0.8	0.6	1.4	3.0	0.8	1.8	1.6	1.0	0.7	2.3	1.4	1.2	2.1	3.7	2.1	1.5

RC19
OBJ IV

If there are 300 calories in nine ounces of a certain food, how many calories are there in a three-ounce portion of that food?

ANSWER ______________________

SCORING GUIDE
RC19
C50020-34

00 = No Response

10 = 100; 100 calories

11 = Correct process with no answer or wrong answer; e.g., 300/9 = X/3; 1/3 x 300; (3 x 300)/9

20 = 900; 900 calories

21 = Other Unacceptable

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

Report #: RC19

NAEP #: C50020-34

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		07-19	02-26
National P-value:			
	RC19	69.98	79.78
Timing: (in seconds)			
	Stimulus:	8	8
	Response:	20	*
RC19	Exercise total:	28	*

*Time not limited by paced tape.

EXERCISE: BC19

If there are 300 calories in nine ounces of a certain food, how many calories are there in a three-ounce portion of that food?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	2.6	0.5	0.4	-0.9	0.2	0.1	-0.1	3.7*	-0.9#	-0.4	0.1	-0.3	-0.4	0.7	0.8	-0.6	-1.9#	3.9	0.1	-0.3
STD ERR OF DP		0.7	0.9	0.6	0.7	0.5	0.5	1.7	0.3	1.3	1.2	0.5	0.5	1.3	2.3	0.5	0.5	2.0	1.1	1.2
STD ERR OF P	0.4	0.7	1.1	0.5	0.8	0.7	0.5	1.9	0.4	1.5	1.5	0.6	0.5	1.3	2.5	0.6	0.4	2.2	1.1	1.1
AGE: Ad																				
DELTA-P	0.3	0.7	-0.1	-0.3	-0.1	0.2	-0.2	-0.3	0.1	-0.1	-0.3	0.4	-0.1	-0.3	-0.3	-0.2	-0.3	-0.3	1.6	0.1
STD ERR OF DP		0.8	0.3	0.2	0.3	0.2	0.2	0.2	0.0	0.3	0.2	0.5	0.3	0.2	0.2	0.2	0.2	0.2	1.6	0.4
STD ERR OF P	0.2	1.0	0.2	0.0	0.2	0.5	0.1	0.0	0.3	0.2	0.0	0.7	0.2	0.0	0.0	0.1	0.0	0.0	1.9	0.4
RESPONSE: 10* AGE: 17 TEXT: 100; 100 calories (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	70.0	-4.0	-0.6	-0.4	4.2*	4.2#	-3.6#	-23.5#	4.3#	-8.3#	-9.6#	-2.5	7.4#	-18.3#	-6.7*	3.7*	5.0	-1.8	-1.9	7.9#
STD ERR OF DP		2.3	1.7	1.8	1.7	1.1	0.9	2.6	0.8	3.2	3.1	1.8	1.4	4.3	2.8	1.5	3.4	3.1	3.1	2.9
P-VALUE	70.0	66.0	69.3	69.6	74.1	74.2	66.4	46.5	74.3	61.7	60.4	67.5	77.4	51.7	63.3	73.7	74.9	68.2	68.0	77.9
STD ERR OF P	1.1	2.6	1.9	2.1	1.9	1.5	1.4	2.8	1.1	3.4	3.4	2.1	1.5	4.5	2.9	1.7	3.7	3.1	3.2	2.9
AGE: Ad																				
DELTA-P	79.8	-2.7	1.3	-0.1	1.1	4.9#	-4.6#	-26.6#	4.7#	-8.3#	-1.4	3.5#	8.6#	-19.2#	1.0	-1.6	1.4	6.3	1.3	11.0#
STD ERR OF DP		2.5	2.1	1.8	2.2	1.2	1.1	4.1	0.7	1.9	2.3	1.3	1.5	3.7	2.7	1.4	3.4	3.2	3.0	2.2
P-VALUE	79.8	77.1	81.1	79.7	80.9	84.7	75.2	53.2	84.4	71.5	78.4	83.3	88.4	60.6	80.8	78.2	81.2	86.0	81.0	90.7
STD ERR OF P	1.2	2.9	2.4	2.0	2.5	1.6	1.7	4.3	1.1	2.0	2.6	1.8	1.8	3.9	2.8	2.0	3.8	3.2	3.1	1.9
RESPONSE: 11 AGE: 17 TEXT: Correct process with no answer or wrong answer; e.g., 300/9 = X/3; 1/3 x 300; (3 x 300)/9																				
DELTA-P	3.0	-1.0	-0.8	0.5	1.0	-0.5	0.5	-0.5	0.2	-2.0#	-0.6	-0.2	0.9	1.0	-1.7*	-0.2	-0.8	-0.4	3.0#	-1.2
STD ERR OF DP		0.6	0.6	0.6	0.7	0.4	0.3	1.2	0.2	0.7	1.0	0.6	0.5	1.4	0.7	0.6	0.7	1.1	1.1	0.9
STD ERR OF P	0.4	0.5	0.7	0.8	0.9	0.5	0.5	1.3	0.4	0.6	1.1	0.7	0.7	1.5	0.6	0.7	0.8	1.2	1.2	0.9
AGE: Ad																				
DELTA-P	1.5	0.4	-0.1	-0.1	-0.1	0.4	-0.4	-0.7	0.2*	-0.2	-0.0	-0.0	0.1	0.7	2.0	0.1	-0.7	-1.0	0.1	-0.7
STD ERR OF DP		0.8	0.5	0.5	0.6	0.3	0.3	0.6	0.1	0.5	0.7	0.5	0.6	0.9	2.2	0.4	0.6	0.6	0.8	0.6
STD ERR OF P	0.4	1.0	0.6	0.6	0.7	0.6	0.4	0.6	0.4	0.5	0.7	0.6	0.8	1.0	2.4	0.6	0.6	0.5	0.8	0.6
RESPONSE: 20 AGE: 17 TEXT: 900; 900 calories																				
DELTA-P	1.9	0.5	0.4	0.1	-0.9*	0.3	-0.3	1.1	-0.2	0.7	2.3*	-0.1	-0.7*	1.1	0.7	-0.2	-1.0	0.9	-0.1	-0.4
STD ERR OF DP		0.6	0.7	0.5	0.4	0.3	0.3	0.6	0.1	0.9	1.1	0.5	0.3	0.9	0.8	0.4	0.5	1.1	0.8	0.8
STD ERR OF P	0.3	0.7	0.9	0.6	0.4	0.5	0.4	0.6	0.4	1.0	1.1	0.6	0.4	0.9	1.0	0.6	0.5	1.1	0.8	0.8
AGE: Ad																				
DELTA-P	1.6	0.3	-1.0*	0.5	0.3	-0.6	0.6	3.4*	-0.6#	0.1	-0.4	-0.4	-0.4	4.1*	0.2	0.1	-1.3#	-1.6#	-0.5	-0.7
STD ERR OF DP		0.6	0.4	0.6	0.8	0.4	0.4	1.6	0.2	0.6	0.5	0.5	0.5	1.7	0.8	0.5	0.5	0.3	0.7	0.7
STD ERR OF P	0.3	0.6	0.3	0.7	1.0	0.4	0.6	1.7	0.4	0.6	0.4	0.5	0.5	1.9	0.8	0.7	0.3	0.0	0.7	0.7
RESPONSE: 21 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	16.5	2.4	0.7	1.7	-4.2#	-3.4#	2.9#	14.7#	-2.7#	9.4#	4.1	2.6*	-5.6#	12.1#	9.5#	-3.2#	-0.0	0.6	-3.9	-4.6
STD ERR OF DP		1.6	1.4	1.5	1.3	0.7	0.6	2.7	0.6	2.3	2.4	1.2	0.9	4.3	2.0	1.3	2.3	2.5	2.1	2.9
STD ERR OF P	0.9	1.8	1.6	1.8	1.5	1.1	1.0	2.9	0.9	2.3	2.4	1.6	1.1	4.5	1.8	1.5	2.5	2.6	2.3	2.9
AGE: Ad																				
DELTA-P	8.2	0.4	-0.3	0.3	-0.4	-1.7*	1.6*	8.6#	-1.7#	3.9#	-0.7	-1.1	-2.5*	6.3#	-0.4	-0.1	1.1	-2.4	0.6	-3.8#
STD ERR OF DP		1.6	1.2	1.5	1.2	0.7	0.7	2.4	0.5	1.5	1.5	1.2	1.1	2.4	1.7	1.0	2.5	1.9	1.9	1.5
STD ERR OF P	0.8	1.8	1.2	2.0	1.2	1.2	1.0	2.6	0.8	1.9	1.6	1.5	1.1	2.5	1.7	1.5	2.8	1.8	1.9	1.3
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	6.1	1.6	0.0	-1.1	-0.2	-0.8	0.7	4.4#	-0.7*	0.7	3.6	0.4	-1.7#	3.4	-2.5#	0.5	-1.3	-3.1#	2.9	-1.4
STD ERR OF DP		1.1	1.0	0.7	0.8	0.6	0.5	1.7	0.3	1.6	1.8	0.8	0.6	2.2	0.8	0.7	0.9	1.2	1.9	1.4
STD ERR OF P	0.5	1.2	1.2	0.6	1.0	0.7	0.8	1.8	0.5	1.6	1.9	0.9	0.8	2.3	0.7	0.9	0.9	1.0	2.1	1.5

EXERCISE: RC19

If there are 300 calories in nine ounces of a certain food, how many calories are there in a three-ounce portion of that food?

RESPONSE: 39 AGE: A4 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	8.6	1.0	0.2	-0.2	-0.8	-3.3#	3.1#	15.6#	-2.6#	4.7#	2.8	-2.3*	-5.7#	8.4#	-2.4	1.7	-0.4	-1.0	-3.0	-5.9#
STD ERR OF DP		1.8	1.5	1.3	1.6	0.8	0.8	3.4	0.5	1.6	2.0	0.9	1.0	2.5	1.5	1.0	2.7	2.5	1.6	1.6
STD ERR OF P	0.9	2.1	1.7	1.4	1.9	0.9	1.4	3.9	0.7	1.8	2.3	1.3	1.0	2.8	1.4	1.4	3.0	2.6	1.6	1.6

RC20
OBJ II

Candidate A received 70 percent of the votes cast in an election. If 4,200 votes are cast in the election, how many votes did he receive?

ANSWER ____________________

SCORING GUIDE
RC20
C50033-234

00 = No Response

10 = 2940; 2940 votes; 2940 people

11 = Correct process with no answer or wrong answer; e.g., 4200 x .70

20 = 2800; 2900; 3000; 3100

21 = 4270; 4130; attempt to add 4200 and 70 or subtract 70 from 4200

22 = 600; 6000; 60; attempt to divide 4200 by .70

23 = Correct multiplication but misplaced decimal; e.g., 294; 29,400; 294,000

28 = Other Unacceptable; e.g., 1260, 70%

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

Report #: RC20

NAEP #: C50033-234

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		01-07	09-06	06-32
National P-value:				
	RC20	9.58	40.84	61.76
Timing: (in seconds)				
	Stimulus:	11	11	11
	Response:	41	40	*
RC20	Exercise total:	52	51	*

*Time not limited by paced tape.

EXERCISE: RC20

Candidate A received 70 percent of the votes cast in an election. If 4,200 votes are cast in the election, how many votes did he receive?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	2.9	0.1	-0.6	-0.3	0.7	0.6	-0.7	0.1	-0.3	5.9#	-0.2	-0.2	-1.2#	0.1	0.9	-1.0	0.4	1.9	0.4	-1.4*
STD ERR OF DP		0.9	0.7	0.6	0.8	0.4	0.4	1.0	0.2	2.3	1.3	0.7	0.4	1.3	1.1	0.5	1.0	1.1	1.0	0.6
STD ERR OF P	0.4	1.0	0.7	0.6	1.0	0.6	0.5	1.2	0.4	2.5	1.3	0.8	0.5	1.3	1.2	0.6	1.1	1.3	1.1	0.6
AGE: 17																				
DELTA-P	2.1	1.6	0.3	-0.8	-0.7	0.2	-0.2	1.3	-0.3	-0.3	0.8	0.6	-0.8	0.1	-1.3	-0.3	0.2	1.8	2.0	-2.1#
STD ERR OF DP		1.0	0.6	0.4	0.4	0.4	0.4	1.0	0.2	0.7	1.2	0.6	0.4	0.8	0.8	0.5	0.6	0.9	1.6	0.4
STD ERR OF P	0.4	1.3	0.7	0.4	0.3	0.7	0.4	1.0	0.4	0.7	1.3	0.8	0.2	0.7	0.8	0.5	0.5	1.0	1.8	0.0
AGE: Ad																				
DELTA-P	0.1	0.0	0.1	-0.1*	-0.0	0.0	-0.0	0.6	-0.1	-0.0	0.1	0.0	-0.1*	0.2	-0.1*	-0.1	-0.1*	0.2	0.3	-0.1*
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.3	0.4	0.1
STD ERR OF P	0.1	0.2	0.2	0.0	0.1	0.1	0.1	0.5	0.0	0.1	0.2	0.2	0.0	0.4	0.0	0.1	0.0	0.3	0.4	0.0
RESPONSE: 10* AGE: 13 TEXT: 2940; 2940 votes; 2940 people (Only category 10 considered to be the acceptable response.)																				
DELTA-P	9.6	-3.6#	-2.2	1.5	3.2	0.2	-0.3	-7.9#	1.7#	-5.8#	-1.7	-3.3#	6.0#	-5.3#	0.8	-3.3#	1.5	-2.1	0.2	10.3#
STD ERR OF DP		1.4	1.6	1.6	1.8	0.5	0.6	1.1	0.3	1.5	2.6	1.3	1.2	1.9	3.0	1.3	1.7	2.2	1.7	3.4
P-VALUE	9.6	6.0	7.4	11.1	12.8	9.8	9.3	1.7	11.3	3.8	7.9	6.3	15.5	4.3	10.4	6.3	11.0	7.5	9.8	19.9
STD ERR OF P	1.0	1.2	1.7	2.1	2.1	1.1	1.1	0.6	1.1	1.6	2.7	1.2	1.8	1.6	3.2	1.4	1.7	2.4	2.0	3.8
AGE: 17																				
DELTA-P	40.8	-5.4*	-3.6	1.1	6.4	1.4	-1.3	-20.7#	4.4#	-16.9#	-17.2#	-2.8	11.0#	-13.2#	6.8	-2.3	-0.4	-0.2	0.1	11.7#
STD ERR OF DP		2.6	2.6	2.2	3.2	1.4	1.3	3.0	0.7	3.3	2.7	2.0	1.4	4.6	3.6	2.0	4.5	4.4	4.5	3.7
P-VALUE	40.8	35.4	37.2	42.0	47.2	42.3	39.5	20.1	45.2	23.9	23.7	38.0	51.9	27.6	47.6	38.6	40.5	40.7	40.9	52.6
STD ERR OF P	1.6	2.7	2.9	2.4	4.0	2.3	1.8	3.0	1.8	3.1	2.9	2.6	2.2	4.6	3.5	2.4	4.7	4.5	5.1	4.2
AGE: Ad																				
DELTA-P	61.8	-7.1#	2.9	5.3*	-3.1	4.7#	-4.4#	-37.5#	5.5#	-14.1#	-7.5#	5.1#	16.7#	-22.6#	-7.9*	2.1	1.5	-3.8	-5.7	19.5#
STD ERR OF DP		2.7	2.4	2.3	2.9	1.5	1.3	3.7	0.8	2.0	2.7	1.8	2.2	4.0	3.6	1.9	3.6	5.0	4.2	3.4
P-VALUE	61.8	54.7	64.7	67.1	58.7	66.5	57.4	24.2	67.3	47.7	54.3	66.8	78.4	39.2	53.9	63.9	63.2	58.0	56.1	81.3
STD ERR OF P	1.5	2.9	2.7	2.6	3.5	2.0	2.1	3.6	1.5	2.6	2.8	2.2	2.2	4.0	3.6	2.2	3.7	5.3	4.6	3.4
RESPONSE: 11 AGE: 13 TEXT: Correct process with no answer or wrong answer; e.g., 4200 x .70																				
DELTA-P	2.0	-1.3#	-0.2	0.5	0.7	0.2	-0.2	-0.5	-0.1	2.0	-1.6#	-0.2	0.6	-1.0	-0.7	-1.1#	-0.3	-0.8	2.1	2.4*
STD ERR OF DP		0.4	0.6	0.6	0.6	0.4	0.4	0.7	0.2	1.6	0.4	0.6	0.4	0.7	0.7	0.4	0.6	0.7	1.1	1.0
STD ERR OF P	0.3	0.3	0.6	0.7	0.7	0.5	0.4	0.8	0.4	1.7	0.3	0.7	0.6	0.7	0.8	0.3	0.7	0.7	1.2	1.2
AGE: 17																				
DELTA-P	3.4	-0.5	-1.2*	0.7	0.7	0.3	-0.3	-0.9	0.0	0.2	0.3	0.3	-0.8*	0.5	-0.9	1.1	0.0	1.0	-1.4	-1.7#
STD ERR OF DP		0.6	0.6	0.8	0.9	0.4	0.4	0.9	0.2	1.1	1.1	0.7	0.4	1.0	1.1	0.6	1.1	1.7	1.1	0.7
STD ERR OF P	0.4	0.5	0.5	1.0	1.1	0.5	0.6	1.0	0.5	1.1	1.2	0.9	0.5	1.0	1.1	0.7	1.2	1.8	1.3	0.6
AGE: Ad																				
DELTA-P	4.5	0.5	-1.5*	-0.7	1.8	-0.9	0.8	-1.4	0.4*	1.4	1.6	-1.1	-0.9	0.1	1.0	0.5	0.7	-2.8#	-0.4	-0.3
STD ERR OF DP		1.0	0.7	0.8	1.2	0.6	0.5	1.3	0.2	1.2	1.6	0.7	0.8	1.5	1.6	0.7	1.2	1.0	1.4	1.7
STD ERR OF P	0.5	1.1	0.7	0.9	1.6	0.8	0.7	1.4	0.6	1.5	1.8	0.8	0.8	1.6	1.7	1.0	1.3	1.0	1.4	1.8
RESPONSE: 20 AGE: 13 TEXT: 2800; 2900; 3000; 3100																				
DELTA-P	1.5	-0.6	-0.1	-0.1	0.7	0.8#	-0.9#	-0.8	0.3#	-1.5#	-0.6	0.6	0.4	-0.2	0.6	-0.9#	-0.6	-0.2	0.9	1.7
STD ERR OF DP		0.4	0.5	0.4	0.6	0.3	0.3	0.4	0.1	0.3	0.7	0.5	0.4	1.0	1.1	0.3	0.5	0.9	0.9	1.0
STD ERR OF P	0.3	0.4	0.6	0.5	0.7	0.5	0.2	0.4	0.3	0.0	0.7	0.6	0.5	0.9	1.2	0.3	0.5	1.0	1.0	1.0
AGE: 17																				
DELTA-P	1.5	-0.5	-0.7	-0.0	1.1	0.5	-0.5	0.2	-0.0	0.8	-0.3	0.5	-0.4	-1.4#	-0.8	0.6	-0.7	1.3	1.0	-1.2#
STD ERR OF DP		0.4	0.4	0.4	0.6	0.3	0.3	0.8	0.1	1.6	0.7	0.5	0.3	0.3	0.5	0.5	0.5	0.9	0.7	0.3
STD ERR OF P	0.3	0.4	0.4	0.5	0.8	0.4	0.4	0.8	0.3	1.7	0.7	0.6	0.3	0.1	0.4	0.6	0.5	0.9	0.8	0.2

EXERCISE: NC20

Candidate A received 70 percent of the votes cast in an election. If 4,200 votes are cast in the election, how many votes did he receive?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad	TEXT: 2800; 2900; 3000; 3100																			
DELTA-P	1.7	0.3	1.3	-0.2	-1.2#	0.2	-0.1	2.6	-0.3	-0.2	0.8	-0.2	-0.1	1.0	-0.4	-0.5	-0.2	0.4	0.2	0.6
STD ERR OF DP		0.7	0.9	0.6	0.4	0.4	0.3	1.5	0.2	0.5	0.9	0.5	0.6	1.1	1.0	0.5	1.1	1.2	1.3	0.9
STD ERR OF P	0.4	0.8	1.1	0.6	0.3	0.6	0.4	1.7	0.4	0.5	1.1	0.7	0.7	1.2	1.0	0.5	1.2	1.2	1.4	1.1
RESPONSE: 21 AGE: 13	TEXT: 4270; 4130; attempt to add 4200 and 70 or subtract 70 from 4200																			
DELTA-P	15.6	6.7#	3.9	-3.5*	-5.0#	-1.1	1.2	18.3#	-4.5#	15.9#	0.5	-1.4	-6.1#	20.1#	7.0	-0.3	2.0	-1.3	-3.9	-11.3#
STD ERR OF DP		1.8	2.8	1.6	1.9	0.8	0.8	3.8	1.1	4.8	2.3	1.3	1.1	5.3	6.3	1.5	2.3	2.1	2.9	1.8
STD ERR OF P	1.2	1.8	3.5	1.7	2.1	1.4	1.4	4.1	0.9	5.5	2.5	1.7	1.0	5.7	6.9	1.5	2.2	2.3	3.0	1.3
AGE: 17																				
DELTA-P	2.8	2.6#	0.3	-0.4	-1.9#	-0.8#	0.7*	6.4#	-1.5#	3.6*	3.1#	-0.1	-1.8#	4.1#	[illegible]	-0.7	0.3	-0.7	-1.4*	-1.5#
STD ERR OF DP		0.6	0.5	0.4	0.3	0.3	0.3	1.2	0.2	1.6	1.0	0.4	0.3	1.7	1.3	0.4	0.7	0.6	0.7	0.5
STD ERR OF P	0.3	0.7	0.6	0.5	0.3	0.4	0.4	1.3	0.2	1.7	1.0	0.5	0.2	1.7	1.4	0.4	0.7	0.6	0.6	0.6
AGE: Ad																				
DELTA-P	0.1	0.2	0.1	-0.1	-0.1	-0.0	0.0	0.4	-0.0	-0.1	0.2	0.1	-0.1	0.1	0.5	0.0	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.0	0.1	0.2	0.1	0.1	0.2	0.6	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.2	0.0	0.0	0.1	0.1	0.4	0.1	0.0	0.2	0.2	0.0	0.2	0.6	0.1	0.0	0.0	0.0	0.0
RESPONSE: 22 AGE: 13	TEXT: 600; 6000; 60; attempt to divide 4,200 by .70																			
DELTA-P	29.1	-0.5	-4.5*	4.1	-0.4	-4.7#	4.9#	-6.0*	1.9#	-11.0#	2.0	2.6	0.2	-7.9*	-3.0	5.6#	-4.8	2.1	-0.9	-4.2
STD ERR OF DP		1.9	2.1	2.1	2.4	1.0	1.1	3.1	0.7	3.3	3.5	1.6	1.2	3.4	5.1	2.0	2.8	4.3	2.3	3.5
STD ERR OF P	1.3	1.9	2.3	2.7	2.9	1.4	1.8	3.4	1.4	3.7	3.7	2.2	1.8	3.5	5.5	2.0	2.8	4.9	2.3	3.8
AGE: 17																				
DELTA-P	17.4	2.6	-1.6	1.2	-2.0	-4.1#	3.8#	9.0#	-1.3	4.6	5.5	-0.6	-2.1#	3.5	0.8	0.4	-3.3	1.7	-1.2	-1.1
STD ERR OF DP		1.6	1.4	1.8	2.2	0.9	0.9	3.2	0.7	2.6	3.1	1.5	0.9	2.7	3.3	1.2	2.1	4.6	3.9	2.6
STD ERR OF P	1.0	1.6	1.3	2.2	2.7	1.2	1.5	3.4	1.2	2.5	3.3	1.9	1.3	2.8	3.4	1.1	2.1	5.0	4.3	2.9
AGE: Ad																				
DELTA-P	5.5	-0.3	-0.3	-0.4	1.0	-1.9*	1.7*	1.8	-0.3	-0.2	2.6	-1.1	-2.4#	0.9	0.3	-0.1	-0.3	7.0	-1.6	-3.4#
STD ERR OF DP		1.1	1.1	0.9	1.7	0.9	0.8	1.8	0.3	1.0	1.7	1.0	0.9	1.6	2.2	0.8	1.5	5.8	1.3	1.2
STD ERR OF P	0.7	1.0	1.2	0.8	2.2	1.3	0.8	1.9	0.8	1.0	1.8	0.9	0.9	1.6	2.2	0.8	1.5	6.3	1.1	0.9
RESPONSE: 23 AGE: 13	TEXT: Correct multiplication but misplaced decimal; e.g., 294; 29,400; 294,000																			
DELTA-P	2.6	0.1	-0.1	0.8	-0.9	-0.7*	0.7*	2.6*	-0.7#	3.5	0.2	0.4	-1.3#	1.0	1.3	-0.9#	0.5	1.3	-0.2	-1.0
STD ERR OF DP		0.7	0.6	0.8	0.6	0.3	0.3	1.1	0.2	2.4	1.0	0.6	0.3	1.5	2.1	0.4	0.9	1.1	0.8	0.7
STD ERR OF P	0.4	0.8	0.6	1.0	0.6	0.5	0.6	1.2	0.4	2.6	1.0	0.7	0.4	1.6	2.3	0.4	0.9	1.1	0.8	0.7
AGE: 17																				
DELTA-P	2.0	0.2	-0.9*	0.4	0.2	-0.6	0.5	0.3	-0.1	0.3	0.1	0.6	-0.6	-1.3#	1.7	-0.3	0.1	1.7	-0.0	-0.5
STD ERR OF DP		0.4	0.4	0.6	0.4	0.4	0.3	0.7	0.2	1.2	0.9	0.4	0.4	0.5	2.0	0.4	0.8	1.3	0.8	0.8
STD ERR OF P	0.3	0.4	0.4	0.8	0.5	0.5	0.5	0.8	0.3	1.2	1.0	0.6	0.4	0.4	2.1	0.4	0.8	1.4	0.8	0.8
AGE: Ad																				
DELTA-P	2.7	1.0	1.4	-1.0	-1.1	-0.6	0.5	6.3#	-0.7*	0.2	-0.1	-1.0	1.3	0.1	-1.0	-0.2	-0.3	-0.5	2.9	-0.8
STD ERR OF DP		1.1	0.9	0.6	0.6	0.4	0.4	2.2	0.3	0.7	0.9	0.7	0.9	1.2	1.1	0.5	1.0	1.3	2.4	1.0
STD ERR OF P	0.5	1.3	1.1	0.6	0.7	0.5	0.7	2.5	0.4	0.8	1.0	0.7	1.2	1.1	1.2	0.6	1.0	1.4	2.7	1.1
RESPONSE: 24 AGE: 13	TEXT: Other Unacceptable; e.g., 1260; 70%																			
DELTA-P	15.4	1.6	-0.3	-2.3	1.8	2.5#	-2.6#	6.2#	-1.1*	0.6	-2.3	2.0	0.2	-2.3	-2.1	-0.2	2.5	1.8	-0.9	-0.7
STD ERR OF DP		1.7	1.5	1.5	1.5	0.7	0.8	2.1	0.5	2.8	1.9	1.5	1.1	2.7	2.0	1.2	2.0	2.6	1.7	2.2
STD ERR OF P	0.9	1.8	1.6	1.8	1.7	1.2	1.1	2.4	1.0	2.9	1.9	1.8	1.5	2.7	2.1	1.6	2.1	2.9	1.9	2.3

EXERCISE: RC20

Candidate A received 70 percent of the votes cast in an election. If 4,200 votes are cast in the election, how many votes did he receive?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 26 AGE: 17 TEXT: Other Unacceptable; e.g., 1260; 70%																				
DELTA-P	15.9	-0.7	0.2	-0.3	0.6	3.4#	-3.2#	2.7	-0.9*	2.4	3.6	-0.9	-0.7	4.1	-6.3#	2.5	1.1	-4.5	-2.3	-1.1
STD ERR OF DP		2.2	1.4	1.4	2.2	0.9	0.9	2.1	0.4	2.8	2.0	1.5	1.0	2.8	1.4	1.8	3.3	2.3	2.9	1.9
STD ERR OF P	1.0	2.5	1.3	1.3	2.9	1.6	1.1	2.1	1.2	2.6	2.2	1.6	1.7	2.9	0.9	2.3	3.4	2.1	3.2	2.1
AGE: A4																				
DELTA-P	10.4	-0.1	-2.5*	-0.7	3.3*	0.2	-0.2	10.1#	-1.3#	2.3	0.1	1.2	-4.4#	3.3	3.3	-1.3	1.9	4.3	4.1*	-8.1#
STD ERR OF DP		1.6	1.2	1.3	1.4	0.9	0.9	3.3	0.4	1.2	1.4	1.1	1.1	3.0	3.5	1.0	3.3	2.7	2.0	1.1
STD ERR OF P	0.8	1.8	1.2	1.6	1.7	1.1	1.3	3.6	0.8	1.4	1.6	1.5	1.1	3.1	3.7	1.2	3.5	2.8	1.9	0.8
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	21.2	-2.3	4.0	-0.7	-0.9	2.1#	-2.2#	-11.4#	2.8#	-9.6#	3.8	-0.5	1.2	-8.4#	-4.9	2.1	-1.2	-2.8	2.2	4.2
STD ERR OF DP		1.9	2.2	1.5	1.8	0.8	0.8	2.1	0.6	2.6	3.4	1.8	1.2	2.9	3.2	1.9	2.7	2.3	2.9	2.6
STD ERR OF P	1.0	2.1	2.6	1.7	2.0	1.2	1.4	2.1	1.1	2.7	3.5	2.2	1.5	3.1	3.4	2.3	2.8	2.4	2.9	2.9
AGE: 17																				
DELTA-P	14.4	0.0	7.2#	-1.9	-4.3#	-0.4	0.4	1.8	-0.3	5.4*	4.1	2.4	-4.0#	3.6	-2.9	-1.1	2.7	-2.2	3.1	-2.7
STD ERR OF DP		1.7	1.8	1.4	1.5	0.8	0.7	2.2	0.4	2.7	2.6	1.3	0.9	2.3	2.8	1.3	2.2	3.5	2.9	2.4
STD ERR OF P	0.9	1.9	2.2	1.7	1.6	1.2	1.1	2.3	1.0	2.7	2.8	1.7	1.2	2.3	2.8	1.5	2.3	3.8	3.2	2.6
AGE: A4																				
DELTA-P	13.2	5.5*	-1.5	-2.1	-0.6	-1.8	1.6	17.2#	-3.2#	10.7#	2.3	-3.1#	-9.9#	16.9#	4.3	-0.4	-3.0	-4.7*	0.3	-7.4#
STD ERR OF DP		2.5	2.0	1.7	2.0	0.9	0.8	3.2	0.6	2.0	2.5	1.2	1.2	3.8	3.4	1.2	3.2	2.2	3.1	2.2
STD ERR OF P	1.1	2.8	2.3	1.8	2.4	1.6	1.3	3.7	1.0	2.8	2.7	1.5	0.7	4.1	3.7	1.5	3.4	2.3	3.4	2.3

RC21
OBJ IV

John has 382 stamps in his stamp collection, Greg has 224, Pete has 310 and Bob has 175. The number of stamps the boys have altogether is CLOSEST to which one of the following numbers?

○ 900
○ 1000
● 1100
○ 1200

○ I don't know.

Report #: RC21

NAEP #: C60001-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		9
Package-Exercise:		05-30
National P-value:		
	RC21	30.57

Timing: (in seconds)

	Stimulus:	28
	Response:	31
	I don't know:	5
	Pause:	6
RC21	Exercise total:	70

EXERCISE: BC21

John has 382 stamps in his stamp collection, Greg has 224, Pete has 310 and Bob has 175. The number of stamps they have altogether is CLOSEST to which one of the following?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.3	0.2	0.1	-0.1	-0.2	0.1	-0.1	0.4	-0.1	0.3	-0.3*	0.2	0.0	0.6	-0.3*	0.0	0.1	-0.3*	0.1	-0.3*
STD ERR OF DP		0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.1	0.6	0.1	0.3	0.2	0.6	0.1	0.2	0.3	0.1	0.3	0.1
STD ERR OF P	0.1	0.3	0.3	0.2	0.1	0.2	0.1	0.4	0.1	0.6	0.0	0.4	0.2	0.7	0.0	0.2	0.4	0.0	0.3	0.0
RESPONSE: 01 AGE: 9 TEXT: 900																				
DELTA-P	18.1	1.7	0.1	-1.8	0.1	0.1	-0.1	0.2	0.8	-0.7	0.2	-0.5	-1.0	1.6	2.9	-0.8	-0.7	2.1	-2.2	-0.7
STD ERR OF DP		1.9	1.9	1.7	1.5	0.8	0.8	2.0	0.5	3.3	4.2	1.8	1.4	2.8	5.1	1.3	2.7	2.7	2.1	2.2
STD ERR OF P	1.0	2.3	2.3	1.9	1.6	1.1	1.4	2.3	1.1	3.1	4.5	2.3	1.4	2.9	5.5	1.6	2.8	2.8	2.1	2.2
RESPONSE: 02 AGE: 9 TEXT: 1000																				
DELTA-P	24.1	-1.7	-1.2	2.7	0.1	-0.3	0.3	-1.8	0.9*	-7.3	1.3	3.5	-1.7	-0.5	1.8	1.2	-2.4	0.4	-3.8	0.8
STD ERR OF DP		1.4	1.8	1.7	1.5	1.0	1.0	1.6	0.4	5.7	4.6	2.0	1.3	2.1	4.5	1.4	3.0	2.3	2.2	2.5
STD ERR OF P	1.0	1.5	2.2	2.1	1.6	1.2	1.5	1.7	1.0	5.7	4.5	2.3	1.6	2.2	4.7	1.7	3.2	2.5	2.3	2.8
RESPONSE: 03* AGE: 9 TEXT: 1100																				
DELTA-P	30.6	-2.1	-2.5	2.9	1.7	0.6	-0.6	-6.7**	1.5	-6.1	-0.1	1.6	6.4**	-9.7**	-4.9	-1.6	4.3	-3.7	7.5*	7.3*
STD ERR OF DP		2.7	2.2	2.2	2.3	1.2	1.2	2.2	0.8	3.8	7.2	2.1	1.5	3.6	3.1	2.0	4.2	3.2	3.4	3.2
P-VALUE	30.6	28.5	28.1	33.5	32.2	31.2	30.0	23.9	32.0	24.5	30.4	32.2	37.0	20.9	25.6	29.0	34.9	26.9	38.1	37.9
STD ERR OF P	1.4	3.2	2.4	2.5	2.6	1.5	2.1	2.4	1.6	4.2	7.5	2.5	1.8	3.8	3.2	2.5	4.6	3.3	3.5	3.3
RESPONSE: 04 AGE: 9 TEXT: 1200																				
DELTA-P	21.8	2.6	3.1	-2.5	-3.3	0.9	-0.9	6.5**	-2.2**	11.1**	-1.6	-3.2	-1.2	8.2**	2.2	1.2	-1.0	-1.7	0.3	-7.4**
STD ERR OF DP		2.0	2.3	1.8	1.8	0.8	0.7	1.9	0.8	4.1	4.3	1.6	1.5	2.7	6.8	1.7	2.7	2.3	2.1	2.1
STD ERR OF P	1.1	2.3	2.8	2.0	2.0	1.3	1.4	2.0	1.2	4.0	4.4	1.9	1.9	2.8	7.3	2.2	2.7	2.3	2.0	2.0
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	5.2	-0.8	0.5	-1.3	1.6	-1.4**	1.4**	1.5	-0.9**	2.6	0.6	-1.6	-2.5**	-0.3	-1.7	-0.1	-0.4	3.2	-2.0	0.1
STD ERR OF DP		0.8	0.7	0.8	1.3	0.5	0.5	0.8	0.3	2.7	2.7	0.9	0.6	0.9	1.1	0.7	1.3	1.7	1.0	1.6
STD ERR OF P	0.5	0.9	0.6	0.9	1.6	0.6	0.9	1.0	0.5	2.8	2.7	0.8	0.6	1.0	1.0	0.9	1.3	1.9	1.0	1.7

RC22
OBJ III

Which number is CLOSEST to the number 28?

○ 20

○ 25

● 30

○ 35

○ I don't know.

Report #: RC22

NAEP #: C70001-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age: 9
Package-Exercise: 01-07
National P-value:
RC22 68.30

Timing: (in seconds)
Stimulus: 8
Response: 11
I don't know: 5
Pause: 6
RC22 Exercise total: 30

EXERCISE: RC22

Which number is CLOSEST to the number 28?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No response.																				
DELTA-P	0.4	-0.3	0.4	0.0	-0.2	0.3	-0.3	0.9	-0.1	0.5	0.6	0.0	-0.1	2.1	-0.4	-0.0	-0.4	-0.4	-0.4	0.4
STD ERR OF DP		0.2	0.5	0.3	0.2	0.2	0.2	1.1	0.2	0.7	0.8	0.3	0.2	2.3	0.2	0.2	0.2	0.2	0.2	0.5
STD ERR OF P	0.2	0.1	0.7	0.3	0.2	0.4	0.1	1.2	0.1	0.8	0.9	0.4	0.2	2.5	0.0	0.2	0.0	0.0	0.0	0.5
RESPONSE: 01 AGE: 9 TEXT: 20																				
DELTA-P	1.0	-0.3	0.0	-0.0	0.3	0.2	-0.2	0.9	-0.2	1.7	1.6	-0.2	-0.3	1.8*	1.1	0.5	-0.6	-1.0#	-0.7	-0.5
STD ERR OF DP		0.4	0.4	0.4	0.6	0.2	0.2	0.6	0.1	1.7	1.5	0.4	0.3	0.9	1.1	0.5	0.3	0.3	0.4	0.4
STD ERR OF P	0.3	0.3	0.5	0.4	0.7	0.4	0.3	0.6	0.3	1.9	1.6	0.4	0.4	0.9	1.1	0.7	0.3	0.0	0.3	0.4
RESPONSE: 02 AGE: 9 TEXT: 25																				
DELTA-P	27.6	9.6#	-0.3	-5.1#	-2.8	-2.1*	2.2*	14.5#	-3.4#	6.2	0.0	2.9	-7.1#	6.7	0.5	1.1	0.4	1.6	-0.4	-7.8#
STD ERR OF DP		2.0	1.9	1.9	1.7	0.9	0.9	3.1	0.6	4.2	5.3	2.1	1.5	3.8	3.7	2.0	2.5	3.1	2.7	2.3
STD ERR OF P	1.1	2.3	2.1	2.3	1.8	1.4	1.4	3.3	1.2	4.3	5.6	2.4	1.8	3.8	3.8	2.5	2.4	3.4	3.0	2.3
RESPONSE: 03* AGE: 9 TEXT: 30																				
DELTA-P	68.3	-12.7#	0.5	6.4#	4.1*	1.5	-1.5	-21.6#	4.9#	-10.8#	-2.4	-1.9	9.1#	-12.0*	-7.8	-1.7	2.4	-1.0	3.5	9.9#
STD ERR OF DP		2.1	2.3	2.0	2.0	0.9	0.9	3.0	0.7	4.2	5.5	2.1	1.7	5.0	5.9	2.4	3.0	2.9	2.8	2.2
P-VALUE	68.3	55.6	68.8	74.7	72.4	69.8	66.8	46.7	73.2	57.5	65.9	66.4	77.4	56.4	60.5	66.6	70.7	67.4	71.8	78.2
STD ERR OF P	1.3	2.3	2.7	2.4	2.2	1.7	1.4	3.2	1.4	4.3	5.8	2.6	1.9	5.4	6.2	2.8	2.7	3.3	3.1	2.2
RESPONSE: 04 AGE: 9 TEXT: 35																				
DELTA-P	1.9	2.2#	-0.5	-0.7	-0.7	0.1	-0.1	4.3#	-0.7#	2.3	0.5	-0.3	-1.2#	1.4	2.8	0.5	-1.3#	0.6	-1.3*	-1.4#
STD ERR OF DP		0.6	0.5	0.4	0.5	0.3	0.3	1.2	0.2	1.8	1.4	0.6	0.4	1.8	1.7	0.6	0.5	0.8	0.5	0.5
STD ERR OF P	0.3	0.8	0.6	0.4	0.5	0.5	0.4	1.4	0.3	1.9	1.4	0.7	0.2	1.9	1.7	0.6	0.4	0.9	0.5	0.5
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	0.8	1.5	-0.1	-0.6*	-0.6*	-0.0	0.0	1.0#	-0.4#	0.1	-0.3	-0.6	-0.4*	-0.0	3.9	-0.3	-0.6	0.2	-0.8#	-0.6
STD ERR OF DP		0.9	0.3	0.3	0.3	0.2	0.2	0.4	0.1	0.7	0.6	0.3	0.2	0.7	2.6	0.3	0.3	0.6	0.3	0.4
STD ERR OF P	0.3	1.1	0.3	0.2	0.2	0.2	0.5	0.5	0.2	1.0	0.5	0.2	0.4	0.7	2.8	0.2	0.3	0.6	0.0	0.3

RC23
OBJ II

In one year, a government department spent the following sums on four projects:

Project A:	$11,954,164
Project B:	$ 1,126,055
Project C:	$ 4,170,522
Project D:	$ 750,572

Approximately how many MILLIONS of dollars were spent on these four projects? Give your answer to the nearest MILLION dollars.

ANSWER ____________________

SCORING GUIDE
RC23
C70011-34

00 = No Response

10 = 18 million; 18 million dollars; $18,000,000; 18m; 18 x 10 to the 6th power; 18,000,000

11 = 18

12 = Correct process but adds incorrectly and rounds off correctly based on his sum; or rounds each number correctly, then adds with error

20 = 20 million; 20 million dollars; $20,000,000; 20m; 20 x 10 to the 6th power; 20

21 = $18,001,313; attempt to simply add total amount

22 = 16; 16,000,000

23 = 17; 17,000,000

24 = Other Unacceptable

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

Report #: RC23

NAEP #: C70011-34

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		11-20	07-15
National P-value:			
	RC23	52.49	62.61
Timing: (in seconds)			
	Stimulus:	40	42
	Response:	31	*
RC23	Exercise total:	71	*

*Time not limited by paced tape.

EXERCISE: BC23

A government department spent the following sums on 4 projects: A: $11,954,164; B: $1,126,055; C: $4,170,522; D: $750,572. Approximately how many MILLIONS of dollars were spent?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	2.0	-1.4	2.0	-0.5	-0.3	0.2	-0.2	3.6*	-0.6	0.8	-1.3	-0.1	-0.2	2.4	-1.8#	-1.2	-1.8#	2.4	-1.8*	6.1
STD ERR OF DP		0.8	1.9	0.9	0.9	0.3	0.3	1.8	0.3	1.4	0.9	0.9	1.0	1.6	0.7	0.8	0.7	1.8	0.7	5.9
STD ERR OF P	0.7	0.4	2.5	0.8	0.8	0.8	0.7	1.8	0.9	1.4	0.5	0.8	1.5	1.4	0.2	0.5	0.2	1.8	0.3	6.5
AGE: Ad																				
DELTA-P	0.2	0.0	-0.1	-0.1	0.2	0.1	-0.1	0.5	-0.1	-0.2	0.5	-0.1	-0.2	-0.2	0.4	0.2	-0.2	0.1	-0.2	-0.2
STD ERR OF DP		0.2	0.2	0.2	0.4	0.1	0.1	0.5	0.1	0.1	0.6	0.1	0.1	0.1	0.6	0.2	0.1	0.3	0.1	0.1
STD ERR OF P	0.1	0.2	0.1	0.1	0.5	0.3	0.1	0.6	0.1	0.0	0.7	0.1	0.0	0.0	0.6	0.3	0.0	0.3	0.0	0.0
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)																				
DELTA-P	52.5	-0.9	-3.8	2.4	1.8	3.8#	-4.0#	-27.7#	5.4#	-20.3#	-16.7#	-0.1	10.6#	-24.3#	-2.0	4.5*	5.5	1.9	1.1	2.0
STD ERR OF DP		2.1	3.0	2.5	2.4	1.[illegible]	1.4	3.1	0.8	3.8	3.1	2.0	1.4	5.0	3.4	2.1	4.7	5.4	2.7	5.1
P-VALUE	52.5	51.6	48.7	54.9	54.2	56.3	48.5	24.8	57.9	32.2	35.8	52.4	63.1	28.2	50.5	57.0	58.0	54.4	53.6	54.5
STD ERR OF P	1.5	1.8	3.6	3.1	2.5	2.1	1.9	3.2	1.6	3.8	3.4	2.7	1.7	5.1	3.5	2.7	4.8	5.6	2.9	4.8
AGE: Ad																				
DELTA-P	62.6	-7.0*	3.1	3.0	-0.7	2.2	-2.0	-37.0#	5.5#	-14.0#	-5.8*	6.4#	13.2#	-17.6#	-4.1	-1.3	0.8	0.1	-0.9	18.0#
STD ERR OF DP		3.0	2.3	2.1	2.7	1.3	1.3	3.2	0.7	2.7	2.7	1.9	1.9	4.2	3.2	1.8	4.6	5.0	3.6	3.4
P-VALUE	62.6	55.6	65.7	65.6	61.9	64.8	60.6	25.7	68.1	48.6	56.8	69.0	75.8	45.0	58.5	61.3	63.4	62.8	61.7	80.6
STD ERR OF P	1.4	3.3	2.6	2.3	3.2	1.9	1.9	3.3	1.4	3.3	2.9	2.2	2.0	4.2	3.0	2.1	5.1	5.4	3.9	3.6
RESPONSE: 10 AGE: 17 TEXT: 18 million; 18 million dollars; $18,000,000; 18m; 18 x 10 to the 6th power; 18,000,000																				
DELTA-P	47.6	-0.8	-3.0	2.1	1.2	3.0#	-3.2#	-25.3#	4.8#	-17.4#	-15.4#	0.7	9.0#	-21.9#	-1.0	3.8*	5.3	3.2	-0.5	3.0
STD ERR OF DP		2.1	2.3	2.5	2.3	1.2	1.2	2.8	0.7	3.5	3.2	1.8	1.4	4.5	3.9	1.9	5.3	5.7	2.9	4.7
STD ERR OF P	1.4	2.0	2.6	3.3	2.5	1.7	2.0	2.9	1.5	3.5	3.4	2.6	1.5	4.6	4.1	2.2	5.7	6.0	3.2	4.5
AGE: Ad																				
DELTA-P	44.4	-6.7*	3.0	4.3*	-2.3	-3.5#	3.2#	-27.1#	3.5#	-9.5#	-2.5	1.2	11.5#	-10.9#	-2.6	-2.5	0.1	-0.1	6.6*	10.3#
STD ERR OF DP		2.9	2.4	1.8	2.2	1.3	1.1	2.9	0.6	2.5	2.8	1.9	2.1	4.2	3.2	1.6	3.6	5.3	3.2	4.1
STD ERR OF P	1.3	3.3	2.9	1.9	2.6	1.9	1.6	3.2	1.3	3.0	3.1	2.4	2.2	4.1	3.1	1.7	3.9	5.7	3.5	4.7
RESPONSE: 11 AGE: 17 TEXT: 18																				
DELTA-P	4.9	-0.1	-0.8	0.3	0.5	0.8	-0.9	-2.4*	0.6#	-2.9#	-1.4	-0.8	1.6#	-2.4*	-1.0	0.7	0.2	-1.3	1.6	-0.9
STD ERR OF DP		0.9	1.4	0.8	1.2	0.5	0.6	1.1	0.2	1.1	1.0	0.7	0.6	1.2	1.3	0.9	1.4	1.5	1.6	1.3
STD ERR OF P	0.6	0.8	1.8	0.7	1.4	1.0	0.6	1.1	0.7	1.0	0.8	0.8	1.1	1.0	1.2	1.3	1.5	1.5	1.9	1.3
AGE: Ad																				
DELTA-P	18.2	-0.3	0.1	-1.3	1.6	5.7#	-5.3#	-9.8#	2.0#	-4.6#	-3.4	5.2#	1.7	-6.7#	-1.5	1.1	0.7	0.3	-7.5#	7.7*
STD ERR OF DP		1.6	1.9	1.3	1.6	1.1	1.0	2.2	0.4	1.3	1.7	1.8	1.7	2.0	2.1	1.4	3.0	3.6	2.1	3.8
STD ERR OF P	0.9	1.6	2.4	1.4	1.9	1.6	1.1	2.1	1.1	1.5	1.9	2.2	1.6	2.0	2.1	1.7	2.8	3.8	2.1	4.2
RESPONSE: 12 AGE: 17 TEXT: Correct process but adds incorrectly and rounds off correctly based on his sum; or rounds each number correctly, then adds with error																				
DELTA-P	1.9	-0.1	-0.9*	0.9	-0.1	-0.7	0.7	-1.4#	0.2*	-1.1	-0.1	0.1	0.3	-0.3	-1.2*	-0.3	0.6	-0.1	-0.4	2.3
STD ERR OF DP		0.6	0.5	0.5	0.6	0.4	0.4	0.4	0.1	0.6	0.8	0.4	0.4	1.0	0.5	0.4	1.0	0.9	0.6	1.4
STD ERR OF P	0.3	0.6	0.5	0.6	0.7	0.4	0.6	0.3	0.4	0.6	0.9	0.6	0.5	1.1	0.5	0.4	1.0	0.9	0.5	1.6
AGE: Ad																				
DELTA-P	1.4	-0.7	0.6	0.1	-0.2	0.1	-0.1	-0.9	0.1	0.1	-0.3	0.4	-0.3	-0.8	0.5	0.3	-0.7	-0.6	0.7	-0.3
STD ERR OF DP		0.4	0.6	0.4	0.6	0.3	0.3	0.5	0.1	0.5	0.6	0.5	0.4	0.6	1.0	0.4	0.5	0.8	1.2	0.5
STD ERR OF P	0.3	0.3	0.7	0.5	0.8	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.5	0.6	1.1	0.6	0.5	0.8	1.3	0.5
RESPONSE: 20 AGE: 17 TEXT: 20 million; 20 million dollars; $20,000,000; 20m; 20 x 10 to the 6th power; 20																				
DELTA-P	2.6	0.4	0.1	-0.6	0.4	-0.4	0.4	-0.7	0.0	0.9	-0.0	-0.5	0.3	1.5	0.6	-0.2	-0.1	-0.3	-0.2	-0.8
STD ERR OF DP		0.8	0.9	0.6	1.2	0.4	0.4	0.7	0.2	1.5	0.7	0.7	0.5	1.9	1.0	0.8	1.2	1.1	1.2	1.1
STD ERR OF P	0.5	0.7	1.1	0.6	1.6	0.7	0.6	0.5	0.6	1.5	0.8	0.8	0.8	2.1	1.0	1.1	1.2	1.2	1.3	1.0

EXERCISE: BC23

A government department spent the following sums on 4 projects: A: $11,954,164; B: $1,126,055; C: $4,170,522; D: $750,572. Approximately how many MILLIONS of dollars were spent?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad	TEXT: 20 million; 20 million dollars; $20,000,000; 20m; 20 x 10 to the 6th power; 20																			
DELTA-P	1.3	0.7	-0.2	-0.4	0.1	-0.5*	0.5	0.9	-0.1	0.9	0.3	-0.2	-0.7*	1.6	0.3	0.2	0.2	-0.7	-0.4	-1.3#
STD ERR OF DP		0.5	0.3	0.3	0.4	0.2	0.2	0.8	0.1	0.5	0.6	0.4	0.3	1.0	0.6	0.3	0.9	0.6	0.6	0.2
STD ERR OF P	0.2	0.6	0.4	0.4	0.5	0.3	0.4	0.9	0.3	0.6	0.6	0.4	0.4	1.0	0.6	0.4	1.0	0.6	0.6	0.0
RESPONSE: 21 AGE: 17	TEXT: $18,001,313; attempted to simply add total amount																			
DELTA-P	12.8	2.3	0.1	0.4	-2.5	-1.1	1.2	10.7#	-2.2#	10.3#	6.3#	-1.2	-4.0#	8.3*	4.5*	0.5	-5.1#	-2.3	0.6	-7.7#
STD ERR OF DP		1.5	1.7	1.6	1.6	0.8	0.8	2.7	0.5	3.2	2.2	1.3	0.7	3.3	2.2	1.2	1.7	2.1	1.9	1.5
STD ERR OF P	0.9	1.5	2.1	2.0	1.8	1.3	1.2	2.9	1.0	3.3	2.3	1.7	1.1	3.5	2.3	1.5	1.8	2.2	2.1	1.8
AGE: Ad																				
DELTA-P	10.5	1.1	0.9	-1.2	-0.6	-0.4	0.4	13.1#	-1.8#	3.6*	3.2	-0.5	-5.4#	8.3#	-1.0	-1.8*	4.2	-0.8	3.5	-5.7#
STD ERR OF DP		1.8	1.2	1.5	1.4	0.8	0.8	2.7	0.4	1.5	2.0	1.2	1.0	3.2	2.1	0.9	3.4	2.6	2.2	1.7
STD ERR OF P	0.9	2.1	1.3	1.8	1.6	1.3	1.1	3.1	0.8	1.8	2.2	1.5	1.2	3.2	2.1	1.1	3.8	2.7	2.2	1.8
RESPONSE: 22 AGE: 17	TEXT: 16; 16,000,000																			
DELTA-P	2.2	0.4	-0.3	-0.5	0.7	-0.3	0.3	0.8	-0.1	-0.7	3.7#	-0.3	-1.1#	-0.2	-0.3	0.4	-1.0	0.2	0.7	-1.1
STD ERR OF DP		0.5	0.5	0.4	0.8	0.3	0.3	0.8	0.1	1.0	1.2	0.5	0.4	0.8	0.8	0.5	0.5	1.5	1.0	0.8
STD ERR OF P	0.3	0.5	0.6	0.4	1.0	0.4	0.5	0.9	0.3	0.9	1.3	0.5	0.3	0.8	0.9	0.5	0.5	1.6	1.1	0.8
AGE: Ad																				
DELTA-P	2.1	-0.9	-0.6	0.7	0.6	-0.7	0.6	0.1	-0.2	0.0	0.6	-0.1	-0.2	1.0	0.5	-0.0	-1.4*	0.3	0.5	-0.3
STD ERR OF DP		0.5	0.5	0.6	0.7	0.4	0.3	1.3	0.2	0.6	0.9	0.5	0.6	1.3	1.1	0.4	0.6	1.6	0.9	0.9
STD ERR OF P	0.3	0.5	0.4	0.8	0.9	0.4	0.6	1.5	0.3	0.5	1.0	0.6	0.8	1.4	1.1	0.5	0.5	1.7	1.0	0.9
RESPONSE: 23 AGE: 17	TEXT: 17; 17,000,000																			
DELTA-P	7.4	-0.6	1.4	-0.2	-0.7	0.6	-0.6	-3.0*	0.4	0.0	-1.7	0.5	0.7	-2.7	-0.2	1.0	1.6	-3.0*	0.5	-0.2
STD ERR OF DP		1.2	1.1	1.0	1.1	0.6	0.7	1.4	0.2	2.0	1.4	0.7	0.6	1.8	1.3	0.9	2.3	1.3	1.1	1.9
STD ERR OF P	0.6	1.3	1.3	1.3	1.2	0.9	0.9	1.5	0.7	2.3	1.4	0.9	0.9	1.9	1.3	1.1	2.5	1.2	1.1	2.1
AGE: Ad																				
DELTA-P	6.4	1.1	-1.0	1.2	-1.2	1.3*	-1.2*	-2.9*	0.6#	-0.3	0.9	-1.[illegible]	-0.5	-2.9	2.1	1.7*	-1.5	-2.2	0.8	-2.4
STD ERR OF DP		0.9	1.0	1.1	1.1	0.6	0.6	1.3	0.2	1.0	1.1	[illegible]	0.9	1.5	2.2	0.7	1.5	1.6	2.8	1.6
STD ERR OF P	0.6	0.9	1.1	1.4	1.2	1.0	0.6	1.2	0.7	1.1	1.2	0.9	1.0	1.4	2.3	0.9	1.6	1.6	3.1	1.6
RESPONSE: 24 AGE: 17	TEXT: Other Unacceptable																			
DELTA-P	14.9	-0.8	-1.4	-0.0	2.2	-1.5	1.6	12.8#	-2.3#	4.9	7.6#	0.9	-4.5#	11.3#	-1.1	-3.5*	2.0	2.2	-0.9	-1.3
STD ERR OF DP		1.6	1.9	1.7	1.6	0.9	1.0	2.8	0.5	3.0	2.1	1.0	1.0	3.1	2.6	1.6	3.7	3.8	1.7	3.1
STD ERR OF P	1.0	1.6	2.2	2.1	1.7	1.2	1.5	3.4	0.9	3.1	2.3	1.5	1.3	3.3	2.6	1.8	3.9	4.1	1.7	3.3
AGE: Ad																				
DELTA-P	11.5	4.0*	-1.5	-0.8	-0.8	-1.2	1.1	19.3#	-2.8#	5.0#	0.7	-2.4	-3.0*	7.5#	2.6	-0.3	0.2	3.0	-3.1	-5.1#
STD ERR OF DP		1.6	1.1	1.2	1.6	0.9	0.8	3.9	0.5	1.7	2.4	1.3	1.3	2.9	2.8	1.1	2.8	4.1	1.7	1.9
STD ERR OF P	0.8	1.8	1.2	1.3	1.9	1.2	1.1	4.2	0.7	1.9	2.7	1.2	1.5	3.0	2.8	1.4	3.0	4.3	1.7	1.9
RESPONSE: [illegible] AGE: 17	TEXT: I Don't Know.																			
DELTA-P	3.6	0.7	3.0#	-1.8#	-1.5*	-0.6	0.6	4.8#	-0.9#	5.0#	2.2*	0.6	-2.0#	4.1#	1.6	-1.2*	-1.7#	-1.1	0.3	0.6
STD ERR OF DP		0.8	0.9	0.6	0.7	0.4	0.4	1.5	0.3	1.8	1.0	0.7	0.5	1.6	1.2	0.5	0.7	1.4	1.2	1.7
STD ERR OF P	0.4	0.9	1.1	0.7	0.7	0.5	0.6	1.6	0.5	1.9	1.2	0.8	0.5	1.8	1.3	0.6	0.6	1.4	1.3	1.8
AGE: Ad																				
DELTA-P	4.0	1.8	-1.2	-2.5#	2.6*	-1.0#	0.9#	6.8#	-1.2#	4.9#	0.0	-2.4#	-2.8#	3.1	-1.4	1.0	-1.6	0.9	-0.8	-2.8#
STD ERR OF DP		1.0	0.9	0.7	1.2	0.4	0.4	2.5	0.3	1.2	1.1	0.7	0.6	1.8	1.2	0.7	1.2	3.0	1.4	0.8
STD ERR OF P	0.6	1.1	1.0	0.7	1.6	0.8	0.6	2.8	0.5	1.7	1.1	0.5	0.6	1.9	1.0	0.9	1.4	3.2	1.3	0.7

RC24
OBJ II

A. (-5) + (-9) =

ANSWER ____________________

B. (-2) X (-3) =

ANSWER ____________________

SCORING GUIDE
RC24
A22004-23

Part A. 00 = No Response

10 = -14

20 = +14; --14; 14

21 = -4

22 = 4; +4

23 = -45

24 = 45; +45

25 = Other Unacceptable

39 = I Don't Know

Report #: RC24

NAEP #: A22004-23

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple part short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		08-14	05-06
National P-value:			
	RC24A	66.33	78.05
	RC24B	38.98	68.42

Timing: (in seconds)

		13	17
	Stimulus:	5	4
	Response:	22	20
RC24A	Part total:	27	24
	Stimulus:	4	4
	Response:	21	21
RC24B	Part total:	25	25
RC24	Exercise total:	52	49

SCORING GUIDE
RC24
A22004-23

Part B. 00 = No Response

10 = 6; +6

20 = -6

21 = -5

22 = 5; +5

23 = -1

24 = 1; +1

25 = Other Unacceptable

39 = I Don't Know.

EXERCISE: RC24

Part A. (-5) + (-9) =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.3	-0.1	0.1	0.0	-0.0	0.1	-0.1	-0.3*	0.0	-0.3*	-0.3*	-0.3*	-0.3*	0.2	-0.3*	0.0	-0.2	0.2	0.2	-0.3*
STD ERR OF DP		0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.4	0.1	0.2	0.1	0.4	0.4	0.1
STD ERR OF P	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.1	0.4	0.5	0.0
AGE: 17																				
DELTA-P	0.6	-0.4	-0.0	-0.1	0.4	0.4	-0.3	1.4	-0.2	1.6*	0.2	-0.3	-0.3	1.2	1.0	-0.5*	-0.5*	0.5	0.9	-0.60
STD ERR OF DP		0.2	0.2	0.3	0.5	0.2	0.2	0.9	0.1	0.7	0.7	0.2	0.2	1.2	0.5	0.2	0.2	1.0	0.8	0.2
STD ERR OF P	0.2	0.1	0.1	0.4	0.7	0.4	0.2	1.1	0.2	0.8	0.7	0.3	0.2	1.3	0.5	0.1	0.1	1.0	0.9	0.0
RESPONSE: 10* AGE: 13	TEXT: -14																			
DELTA-P	66.3	1.6	-6.1*	1.9	2.6	-1.5	1.5	-25.10	5.00	-8.0	-1.5	0.8	5.50	-15.70	3.6	3.5	-2.1	-4.7	-3.1	9.70
STD ERR OF DP		2.9	2.5	2.8	2.9	1.2	1.3	3.1	0.9	4.9	4.0	2.0	1.5	3.9	6.0	2.4	3.8	3.9	3.3	3.7
P-VALUE	66.3	67.9	60.3	68.2	69.0	64.9	67.8	41.2	71.3	58.4	64.8	67.1	71.8	50.7	69.9	69.9	64.3	61.6	63.3	76.0
STD ERR OF P	1.6	3.5	2.7	3.3	3.3	2.1	2.0	3.6	1.7	5.5	4.4	2.7	1.9	4.0	6.5	2.7	4.2	4.1	3.7	3.8
AGE: 17																				
DELTA-P	78.1	-4.3	-0.0	1.7	1.6	1.6	-1.4	-20.70	4.70	-21.90	-12.70	-1.3	10.50	-14.00	-4.4	0.6	4.4	-7.5*	0.2	10.50
STD ERR OF DP		2.7	2.2	2.0	2.3	1.1	1.0	3.1	0.8	4.2	2.8	1.5	1.1	4.2	3.5	2.0	3.0	3.0	3.6	2.9
P-VALUE	78.1	73.8	78.0	79.7	79.6	79.7	76.6	57.4	82.8	56.1	65.3	76.8	88.5	64.1	73.7	78.7	82.4	70.6	78.3	88.6
STD ERR OF P	1.3	3.0	2.5	2.3	2.8	1.6	1.7	3.5	1.3	4.1	2.9	1.9	1.4	4.7	3.5	2.3	2.9	3.2	3.8	3.1
RESPONSE: 20 AGE: 13	TEXT: +14; --14; 14																			
DELTA-P	14.7	0.6	2.8	0.4	-4.1*	-1.0	1.0	15.10	-3.10	5.3	1.6	-0.5	-2.40	9.60	2.5	-4.10	1.4	3.7	0.8	-4.1
STD ERR OF DP		2.1	1.7	1.8	1.8	0.8	0.8	2.7	0.6	3.8	2.8	1.4	0.9	2.3	4.4	1.5	2.4	2.8	2.2	3.0
STD ERR OF P	1.1	2.6	1.8	2.1	2.1	1.3	1.4	2.9	1.1	4.1	3.1	1.8	1.3	2.3	4.8	1.9	2.5	3.0	2.4	3.2
AGE: 17																				
DELTA-P	10.4	4.0*	-1.2	-2.4	0.5	-1.2	1.0	15.20	-3.20	8.90	4.6	1.9	-5.80	8.40	0.4	0.2	-3.0	4.0*	-2.5	-4.2
STD ERR OF DP		1.9	1.5	1.2	1.7	1.0	0.8	2.3	0.6	3.2	2.6	1.5	0.8	3.1	2.8	1.4	1.7	2.2	2.0	2.2
STD ERR OF P	0.9	2.2	1.7	1.3	2.1	1.4	1.2	2.5	0.9	3.3	2.5	2.0	0.8	3.3	2.9	1.8	1.6	2.3	1.8	2.5
RESPONSE: 21 AGE: 13	TEXT: -4																			
DELTA-P	3.8	-0.6	0.6	1.1	-1.2	0.5	-0.5	2.9*	-0.4	-1.5	-1.6*	1.0	0.0	1.3	-1.0	-0.1	-0.5	1.8	1.0	-2.20
STD ERR OF DP		0.7	0.6	0.8	0.8	0.4	0.4	1.3	0.3	0.9	0.8	0.8	0.5	1.9	0.9	0.6	0.7	1.3	1.3	0.8
STD ERR OF P	0.4	0.8	0.7	0.9	0.9	0.6	0.6	1.4	0.5	0.9	0.8	0.9	0.6	2.0	0.9	0.7	0.7	1.4	1.5	0.8
AGE: 17																				
DELTA-P	2.8	1.3	0.0	-0.8	-0.2	-0.8	0.7	2.1	-0.6*	0.9	4.5	-0.7	-1.20	3.0	0.9	-0.2	-0.8	0.1	1.6	-2.70
STD ERR OF DP		1.0	0.9	0.6	0.8	0.5	0.5	1.5	0.3	1.0	2.6	0.5	0.4	1.7	1.4	0.7	1.0	1.3	1.3	0.5
STD ERR OF P	0.5	1.1	1.1	0.7	1.0	0.6	0.8	1.6	0.5	1.1	2.8	0.5	0.4	1.9	1.4	0.8	1.0	1.3	1.4	0.1
RESPONSE: 22 AGE: 13	TEXT: 4; +4																			
DELTA-P	5.8	-0.9	1.2	-1.7*	1.7	0.4	-0.4	-0.1	0.1	2.2	0.3	-0.2	-0.7	-0.8	-1.9	0.6	-0.4	-0.6	1.2	0.1
STD ERR OF DP		0.8	1.1	0.9	1.4	0.6	0.7	1.3	0.2	2.3	1.9	0.8	0.6	1.4	1.7	1.0	1.3	1.6	1.7	1.5
STD ERR OF P	0.6	0.7	1.3	0.9	1.7	0.8	1.0	1.4	0.7	2.2	1.9	0.9	0.9	1.3	1.6	1.1	1.5	1.8	2.0	1.6
AGE: 17																				
DELTA-P	3.0	0.5	-0.7	0.4	-0.2	-0.6	0.5	0.4	-0.2	1.2	-0.6	0.6	-0.4	-1.7*	0.9	0.0	-1.0	2.3	1.8	-1.1
STD ERR OF DP		0.6	0.5	0.7	0.7	0.4	0.4	1.1	0.2	1.6	0.9	0.5	0.4	0.7	1.4	0.5	0.9	2.2	1.4	0.9
STD ERR OF P	0.4	0.6	0.5	0.9	0.9	0.5	0.6	1.3	0.4	1.7	0.8	0.6	0.6	0.7	1.5	0.6	0.9	2.3	1.5	1.0
RESPONSE: 23 AGE: 13	TEXT: -45																			
DELTA-P	0.1	0.1	0.0	-0.1*	0.1	0.0	-0.0	-0.1*	0.0	-0.1*	-0.1*	0.0	0.1	-0.1*	-0.1*	0.2	0.1	-0.1*	-0.1*	-0.1*
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.2	0.0	0.0	0.0

EXERCISE: RC24

Part A. (-5) + (-9) =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 23 AGE: 17	TEXT: -45																			
DELTA-P	0.3	0.0	-0.3	0.3	-0.1	0.3	-0.2	-0.2	0.0	-0.3	-0.3	0.3	-0.2	0.2	0.1	-0.1	-0.3	-0.3	0.9	-0.3
STD ERR OF DP		0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.2	0.9	0.2
STD ERR OF P	0.1	0.2	0.0	0.5	0.2	0.3	0.0	0.1	0.2	0.0	0.0	0.4	0.1	0.4	0.3	0.1	0.0	0.0	1.0	0.0
RESPONSE: 24 AGE: 13	TEXT: 45; +45																			
DELTA-P	0.5	0.3	0.0	-0.3	-0.1	0.3	-0.3	0.3	-0.1	0.4	0.0	-0.1	-0.1	0.4	-0.1	-0.0	0.1	-0.4	0.4	-0.6#
STD ERR OF DP		0.4	0.4	0.2	0.3	0.2	0.2	0.4	0.1	0.7	0.6	0.3	0.2	0.7	0.4	0.3	0.4	0.2	0.6	0.2
STD ERR OF P	0.2	0.5	0.4	0.2	0.3	0.3	0.1	0.5	0.2	0.8	0.6	0.4	0.3	0.7	0.5	0.3	0.5	0.2	0.6	0.0
AGE: 17																				
DELTA-P	0.4	0.7#	-0.2	-0.2	-0.2	0.3*	-0.2*	0.6*	-0.1*	-0.0	1.0*	0.0	-0.3#	1.0*	0.2	0.0	-0.2	-0.0	-0.4#	-0.4#
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.3	0.1	0.3	0.5	0.2	0.1	0.5	0.5	0.2	0.2	0.3	0.1	0.1
STD ERR OF P	0.1	0.3	0.2	0.2	0.2	0.2	0.1	0.3	0.1	0.4	0.5	0.2	0.1	0.5	0.5	0.2	0.2	0.4	0.0	0.0
RESPONSE: 25 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	5.0	0.0	1.8	-1.8*	0.1	1.2	-1.2	6.4#	-1.3#	1.5	3.5*	-0.7	-1.1	4.2	-2.2	0.3	0.4	-0.1	-0.3	-1.9
STD ERR OF DP		0.9	0.9	0.8	1.0	0.6	0.6	1.9	0.4	2.2	1.6	0.7	0.6	2.4	1.3	0.9	1.2	1.6	1.1	1.2
STD ERR OF P	0.5	1.1	1.0	0.9	1.2	0.9	0.7	2.1	0.5	2.4	1.7	0.8	0.7	2.5	1.3	1.1	1.3	1.7	1.1	1.2
AGE: 17																				
DELTA-P	2.9	-1.0	1.7	0.4	-1.3*	-0.2	0.2	1.1	-0.4	5.6*	1.1	-0.1	-1.3#	1.5	2.0	-0.6	0.9	-0.5	-1.5*	-0.1
STD ERR OF DP		0.5	1.0	0.7	0.6	0.5	0.4	1.2	0.2	2.7	1.4	0.6	0.5	1.5	1.6	0.5	1.2	1.1	0.7	1.5
STD ERR OF P	0.4	0.4	1.2	0.9	0.6	0.6	0.6	1.2	0.5	2.9	1.4	0.7	0.6	1.6	1.7	0.5	1.4	1.1	0.6	1.6
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	3.4	-1.0	-3.4	0.4	0.9	0.0	-0.0	1.0	-0.2	0.6	-2.0*	-0.0	-1.0*	0.9	-0.6	-0.5	1.1	0.4	-0.1	-0.7
STD ERR OF DP		0.8	0.7	0.7	1.4	0.4	0.4	1.2	0.2	1.6	0.8	0.6	0.5	1.6	1.0	0.7	1.4	1.0	1.2	1.5
STD ERR OF P	0.5	0.8	1.7	0.7	1.8	0.7	0.6	1.5	0.5	1.6	0.7	0.9	0.6	1.5	1.0	0.6	1.5	1.0	1.5	1.8
AGE: 17																				
DELTA-P	[illegible]	[illegible]	[illegible]	0.6	-0.6	0.2	-0.2	0.1	-0.1	4.1	2.3	-0.6	-1.0#	0.5	-1.2#	0.6	0.5	0.6	-1.1#	-1.1
STD ERR OF DP		[illegible]	[illegible]	0.7	0.4	0.3	0.3	0.8	0.1	2.3	1.5	0.3	0.3	0.8	0.4	0.5	0.7	1.2	0.4	0.6
STD ERR OF P	[illegible]	[illegible]	[illegible]	0.9	0.4	0.5	0.4	0.8	0.4	2.5	1.7	0.3	0.2	0.8	0.3	0.8	0.8	1.2	0.3	0.5

EXERCISE: RC24

Part B. (-2) x (-3) =

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 60 AGE: 13	TEXT: No Response.																			
DELTA-P	0.3	-0.1	0.1	0.0	0.0	0.1	-0.1	-0.3#	0.0	-0.3#	-0.3#	-0.3#	-0.1	0.1	-0.3#	-0.0	0.1	0.1	0.2	-0.3#
STD ERR OF DP		0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.4	0.1	0.2	0.2	0.4	0.4	0.1
STD ERR OF P	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.4	0.0	0.2	0.3	0.4	0.5	0.0
AGE: 17																				
DELTA-P	0.8	-0.7#	0.2	-0.1	0.4	0.5*	-0.4*	1.5	-0.3	3.4#	0.1	-0.4	-0.4*	1.0	0.7	-0.5*	-0.2	0.9	0.8	-0.8#
STD ERR OF DP		0.2	0.3	0.3	0.5	0.2	0.2	1.0	0.2	1.2	0.7	0.3	0.2	1.2	0.5	0.2	0.5	1.1	0.8	0.2
STD ERR OF P	0.2	0.1	0.3	0.4	0.7	0.4	0.2	1.2	0.2	1.3	0.7	0.3	0.2	1.3	0.4	0.1	0.5	1.2	0.9	0.0
RESPONSE: 10* AGE: 13	TEXT: 6; +6																			
DELTA-P	39.0	-4.0	2.3	3.6	-1.3	-1.7	1.7	-2.3	-0.3	-11.1*	-7.8*	0.8	5.4#	-4.9	-3.0	-4.3	-3.5	5.3	7.7*	8.0
STD ERR OF DP		2.6	2.6	3.2	3.7	1.2	1.2	3.2	0.7	4.8	3.8	1.8	1.8	4.2	3.5	2.7	4.9	5.1	3.7	8.0
P-VALUE	39.0	34.1	41.3	42.5	37.7	37.3	40.7	36.7	38.7	27.9	31.1	39.8	44.4	34.1	36.0	34.7	35.5	44.3	46.7	46.9
STD ERR OF P	1.8	2.6	2.6	4.0	4.4	2.2	2.0	3.1	2.1	4.5	3.5	2.3	3.0	4.2	3.4	3.0	5.2	4.9	4.3	8.9

EXERCISE: RC29

Part B. (-2) x (-3) =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 10* AGE: 17	TEXT: 6; +6																			
DELTA-P	68.4	-2.6	1.8	-2.4	3.0	0.9	-0.8	-20.6#	4.1#	-25.5#	-17.5#	-3.6*	13.9#	-17.0#	-3.3	-1.7	1.3	0.5	-1.0	18.1#
STD ERR OF DP		3.1	2.5	2.8	3.4	1.5	1.3	3.1	0.8	3.7	3.2	1.7	1.3	5.3	5.2	2.2	3.9	5.3	3.5	2.7
P-VALUE	68.4	65.9	70.2	66.1	71.5	69.3	67.6	47.8	72.5	42.9	50.9	64.8	82.3	51.5	65.1	66.8	69.7	68.9	67.4	86.6
STD ERR OF P	1.7	3.3	2.5	3.4	4.1	2.0	2.4	3.4	1.8	3.4	3.5	2.5	1.8	5.7	5.3	2.8	4.0	5.5	3.7	2.6
RESPONSE: 20 AGE: 13	TEXT: -6																			
DELTA-P	47.6	7.2#	-4.2	-3.0	0.1	0.3	-0.3	-7.3#	2.0#	5.4	10.6#	0.4	-3.1	-2.9	7.1	4.5	3.0	-5.0	-9.4#	-4.1
STD ERR OF DP		2.3	2.7	2.7	3.5	1.2	1.2	2.9	0.7	5.2	3.5	2.0	2.0	4.6	3.7	2.9	4.7	3.9	2.8	6.5
STD ERR OF P	1.7	2.3	3.1	3.2	4.2	2.2	2.0	2.8	1.9	5.6	3.2	2.3	3.0	4.8	3.8	3.2	4.9	3.8	3.3	7.2
AGE: 17																				
DELTA-P	23.6	2.2	-1.7	2.5	-3.0	-1.8	1.5	12.6#	-2.4*	12.3#	9.1#	4.5#	-9.6#	11.6#	5.5	0.5	-1.4	-2.4	1.4	-11.9#
STD ERR OF DP		2.7	2.0	2.2	2.6	1.3	1.1	3.1	0.7	3.8	2.7	1.7	1.1	4.4	4.2	1.8	3.2	3.9	2.5	2.4
STD ERR OF P	1.4	3.0	2.1	2.8	3.0	1.6	2.0	3.3	1.5	3.8	2.9	2.3	1.5	4.7	4.3	2.4	3.3	4.1	2.5	2.4
RESPONSE: 21 AGE: 13	TEXT: -5																			
DELTA-P	1.5	-0.6	0.7	-0.2	0.1	-0.1	0.1	0.3	-0.1	1.9	0.2	-0.1	-0.3	0.5	-0.5	0.5	-0.1	-0.8	-0.5	0.4
STD ERR OF DP		0.3	0.5	0.4	0.6	0.2	0.3	0.6	0.1	1.4	0.7	0.5	0.3	1.2	0.5	0.4	0.5	0.6	0.7	0.9
STD ERR OF P	0.3	0.3	0.6	0.5	0.7	0.4	0.4	0.6	0.3	1.5	0.8	0.6	0.4	1.3	0.5	0.5	0.6	0.6	0.7	1.0
AGE: 17																				
DELTA-P	1.1	0.3	-0.6	0.8	-0.6	-0.3	0.3	-0.1	0.1	1.9	-0.3	0.4	-0.4	-0.2	-0.2	0.0	0.6	-0.3	0.9	-1.1#
STD ERR OF DP		0.5	0.4	0.7	0.4	0.3	0.3	0.5	0.1	1.9	0.5	0.4	0.2	0.6	0.6	0.3	1.1	0.7	1.3	0.3
STD ERR OF P	0.3	0.5	0.3	0.9	0.3	0.3	0.5	0.4	0.4	2.0	0.4	0.5	0.4	0.5	0.6	0.4	1.2	0.7	1.4	0.0
RESPONSE: 22 AGE: 13	TEXT: 5; +5																			
DELTA-P	1.4	-0.1	0.1	-0.1	0.1	0.0	0.0	1.0	-0.2	0.3	1.1	-0.4	-0.6*	2.2	-0.3	-0.5	0.1	0.2	0.1	-0.4
STD ERR OF DP		0.5	0.6	0.4	0.5	0.3	0.3	0.8	0.2	1.0	1.3	0.3	0.3	1.3	0.6	0.6	0.5	0.8	0.8	0.5
STD ERR OF P	0.3	0.6	0.7	0.4	0.6	0.4	0.4	0.9	0.3	1.0	1.4	0.4	0.3	1.4	0.6	0.4	0.6	0.8	0.8	0.5
AGE: 17																				
DELTA-P	1.3	-0.3	0.1	-0.7	0.3	0.4	-0.3	1.0	-0.3	0.8	1.2	0.3	-0.8#	1.2	-0.9#	0.3	0.9	0.3	-0.8	-1.3#
STD ERR OF DP		0.3	0.4	0.4	0.5	0.3	0.2	0.6	0.1	0.8	1.2	0.4	0.2	1.2	0.4	0.3	0.9	1.1	0.4	0.2
STD ERR OF P	0.2	0.3	0.5	0.5	0.6	0.4	0.3	0.7	0.3	0.9	1.3	0.5	0.2	1.2	0.3	0.4	1.0	1.1	0.4	0.0
RESPONSE: 23 AGE: 13	TEXT: -1																			
DELTA-P	0.9	-0.5*	-0.2	0.8	-0.2	[illegible]	-0.1	0.7	-0.2	0.2	-0.2	0.6	-0.5*	-0.1	-0.9#	-0.2	-0.1	0.5	0.7	0.1
STD ERR OF DP		0.2	0.3	0.4	0.3	[illegible]	0.2	0.6	0.1	1.1	0.4	0.4	0.2	0.5	0.2	0.3	0.3	0.7	0.6	0.6
STD ERR OF P	0.2	0.2	0.4	0.5	0.3	0.3	0.3	0.7	0.2	1.1	0.4	0.5	0.2	0.5	0.0	0.3	0.3	0.8	0.7	0.7
AGE: 17																				
DELTA-P	0.5	0.6	0.2	-0.3	-0.4#	0.3	-0.2	1.4	-0.3*	0.5	1.3	-0.4*	-0.2	0.3	0.3	-0.1	0.4	-0.4*	0.2	-0.5#
STD ERR OF DP		0.5	0.2	0.2	0.2	0.2	0.1	0.9	0.2	0.6	1.1	0.2	0.2	0.4	0.6	0.2	0.8	0.2	0.5	0.2
STD ERR OF P	0.2	0.6	0.2	0.2	0.1	0.3	0.1	1.0	0.1	0.6	1.2	0.1	0.1	0.4	0.6	0.2	0.9	0.1	0.5	0.0
RESPONSE: 24 AGE: 13	TEXT: 1; +1																			
DELTA-P	2.0	-0.1	0.3	-0.6	0.5	0.5	-0.5	0.9	-0.0	0.4	-1.5#	-1.0*	0.6	-1.5#	-1.3#	0.1	0.5	0.3	0.9	-0.5
STD ERR OF DP		0.4	0.6	0.4	0.6	0.4	0.4	1.1	0.2	1.1	0.3	0.4	0.4	0.5	0.4	0.4	0.5	1.1	1.0	0.9
STD ERR OF P	0.3	0.5	0.8	0.4	0.6	0.6	0.4	1.2	0.3	1.1	0.2	0.4	0.5	0.4	0.3	0.4	0.6	1.3	1.1	1.0
AGE: 17																				
DELTA-P	1.3	-0.0	-0.3	-0.3	0.6	-0.2	0.1	1.9	-0.4*	1.8	2.7	-0.2	-0.8#	1.1	-0.1	0.1	-1.1#	1.5	-0.4	-0.3
STD ERR OF DP		0.5	0.5	0.5	0.6	0.4	0.3	1.2	0.2	1.6	1.8	0.4	0.3	0.8	0.5	0.4	0.3	2.0	0.6	0.9
STD ERR OF P	0.3	0.5	0.5	0.6	0.7	0.5	0.4	1.3	0.3	1.7	2.0	0.4	0.3	0.8	0.5	0.6	0.2	2.0	0.6	1.0

EXERCISE: RC24

Part B. (-2) x (-3) =

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 25 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	3.6	-0.3	1.5	-0.9	-0.4	0.8	-0.8	6.6#	-1.1#	2.9	0.3	0.1	-0.9*	5.5	-0.6	0.2	-0.6	-0.5	-0.2	-2.2*
STD ERR OF DP		0.6	1.0	0.8	0.8	0.4	0.4	2.0	0.4	1.8	1.2	0.6	0.4	2.8	1.2	0.7	0.7	1.5	0.9	0.9
STD ERR OF P	0.5	0.6	1.2	0.9	0.9	0.6	0.6	2.3	0.4	1.9	1.2	0.6	0.5	3.1	1.2	0.7	0.6	1.6	1.1	0.9
AGE: 17																				
DELTA-P	1.2	0.6	-0.1	0.1	-0.6*	0.4	-0.4	2.5#	-0.5#	1.7	1.2*	-0.3	-0.5	1.6	-0.2	0.5	-0.4	-0.4	-1.0#	-1.0#
STD ERR OF DP		0.4	0.4	0.3	0.3	0.3	0.2	0.8	0.1	1.1	0.6	0.3	0.3	1.1	0.7	0.3	0.4	0.7	0.2	0.2
STD ERR OF P	0.2	0.5	0.4	0.4	0.3	0.4	0.3	0.9	0.1	1.1	0.6	0.4	0.2	1.1	0.7	0.4	0.4	0.7	0.1	0.1
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	3.7	-0.8	-0.6	0.5	0.9	0.0	0.0	0.5	-0.1	0.3	-2.5#	-0.3	-0.4	1.2	-0.2	-0.4	0.6	-0.1	0.3	-1.0
STD ERR OF DP		0.9	0.8	0.8	1.5	0.4	0.4	1.1	0.2	1.6	0.8	0.6	0.5	1.6	1.3	0.7	1.4	1.0	1.3	1.5
STD ERR OF P	0.6	1.0	0.7	0.8	1.8	0.7	0.7	1.4	0.6	1.6	0.7	0.8	0.8	1.6	1.3	0.7	1.5	1.0	1.6	1.8
AGE: 17																				
DELTA-P	1.8	-0.2	0.3	0.2	-0.3	-0.2	0.2	-0.3	0.0	3.1	2.2	-0.4	-1.1#	0.3	-1.8#	0.9	-0.2	0.2	-0.1	-1.2*
STD ERR OF DP		0.4	0.5	0.6	0.5	0.3	0.3	0.8	0.1	2.2	1.4	0.4	0.3	0.8	0.3	0.5	0.6	1.1	0.5	0.6
STD ERR OF P	0.3	0.4	0.5	0.8	0.6	0.3	0.5	0.8	0.4	2.4	1.5	0.3	0.2	0.8	0.0	0.7	0.7	1.1	0.4	0.5

RC25
OBJ I

A. If x and y are negative numbers, then x + y

● is negative.

○ is positive.

○ may be either positive or negative depending on what x and y are.

○ I don't know.

B. If x and y are both negative numbers, then x × y

○ is negative.

● is positive.

○ may be either positive or negative depending upon the size of x and y.

○ I don't know.

Report #: RC25

NAEP #: A22005-23

Content Area: C. ARITHMETIC COMPUTATION

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple part multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		13	17
Package-Exercise:		07-21	02-06
National P-value:			
	RC25A	47.14	64.06
	RC25B	39.37	64.45

Timing: (in seconds)			
	Stimulus:	15	15
	Response:	21	22
	I don't know:	5	5
	Pause:	4	5
RC25A	Part total:	45	47
	Stimulus:	17	15
	Response:	21	23
	I don't know:	1	1
	Pause:	6	5
RC25B	Part total:	45	44
RC25	Exercise total:	90	91

EXERCISE: RC25

Part A. If X and Y are negative numbers, then X + Y

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.5	-0.5	-0.3	1.2	-0.5	0.1	-0.1	-0.5	0.1	1.2	0.3	-0.1	-0.2	-0.5	3.7	-0.5	-0.5	-0.1	-0.5	-0.5
STD ERR OF DP		0.5	0.5	1.2	0.5	0.1	0.1	0.5	0.1	0.9	0.4	0.1	0.1	0.5	3.5	0.5	0.5	0.6	0.5	0.5
STD ERR OF P	0.5	0.0	0.2	1.6	0.0	0.5	0.4	0.0	0.6	1.2	0.8	0.4	0.3	0.0	3.9	0.0	0.0	0.4	0.0	0.0
AGE: 17																				
DELTA-P	0.1	0.0	-0.1	-0.0	0.1	-0.1	0.1	0.1	-0.1	0.2	-0.1	-0.1	-0.1	0.1	-0.1	-0.0	-0.1	1.0	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.1	1.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.1	0.3	0.1	0.1	0.3	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.1	0.0	1.2	0.0	0.0
RESPONSE: 01* AGE: 13	TEXT: is negative.																			
DELTA-P	47.1	-5.7	3.7	3.9	-2.6	-0.3	0.3	-21.2*	4.2*	-7.1	-10.5*	0.3	7.8*	-16.5*	0.5	-1.9	7.7*	-11.4*	4.3	9.0*
STD ERR OF DP		2.9	2.9	2.8	3.2	1.2	1.2	3.0	0.7	4.5	4.0	1.9	1.3	6.5	5.8	2.5	2.7	4.4	3.6	4.1
P-VALUE	47.1	41.5	50.9	51.0	44.5	46.8	47.5	26.0	51.4	40.0	36.6	47.5	55.0	30.6	47.6	45.3	54.8	35.7	51.5	56.2
STD ERR OF P	1.8	3.1	3.2	3.4	3.9	2.2	2.1	2.8	1.9	5.0	4.5	2.5	2.2	6.8	6.5	3.1	2.8	4.6	3.8	4.0
AGE: 17																				
DELTA-P	64.1	-9.7*	-1.5	3.0	5.7*	2.2	-1.9	-25.5*	6.2*	-13.8*	-12.9*	-3.9*	12.3*	-14.9*	-10.4*	0.9	8.4*	-8.3	3.5	11.3*
STD ERR OF DP		3.4	2.1	2.2	2.1	1.4	1.2	2.7	0.9	5.2	2.9	1.8	1.5	3.1	5.1	1.9	2.8	5.4	3.2	4.8
P-VALUE	64.1	54.3	62.6	67.1	69.8	66.3	62.2	38.5	70.3	50.2	51.2	60.2	76.3	49.2	53.7	65.0	72.5	55.7	67.5	75.3
STD ERR OF P	1.4	4.1	2.2	2.6	2.3	2.0	1.8	2.8	1.4	5.5	3.2	2.1	1.7	3.1	5.3	2.2	2.7	5.4	3.4	5.2
RESPONSE: 02 AGE: 13	TEXT: is positive.																			
DELTA-P	19.2	0.4	1.3	-2.9	1.4	1.8	-1.8	3.2	-0.5	-0.4	5.7*	-1.4	1.6	1.8	-3.8	-0.2	-3.5	6.4	-0.1	2.2
STD ERR OF DP		1.7	1.9	1.7	1.9	1.0	1.0	2.2	0.5	2.9	2.6	1.3	1.2	2.7	2.4	1.7	2.2	4.0	3.5	3.5
STD ERR OF P	1.0	1.8	2.2	2.0	2.2	1.5	1.4	2.2	1.2	3.1	2.6	1.5	1.8	2.6	2.4	2.2	2.2	4.1	3.9	3.5
AGE: 17																				
DELTA-P	15.5	5.2*	-0.1	-1.9	-2.0	-1.2	1.0	8.3*	-1.4*	4.5	4.8*	1.9	-4.7*	6.5*	2.2	-0.2	-1.4	2.3	-0.1	-7.7*
STD ERR OF DP		2.1	1.7	1.5	1.2	0.9	0.8	2.0	0.5	2.9	2.3	1.3	1.2	2.3	3.9	1.2	2.3	3.8	2.2	2.5
STD ERR OF P	0.9	2.5	.1.9	1.7	1.3	1.3	1.2	2.2	1.1	3.0	2.6	1.6	1.4	2.3	4.1	1.7	2.5	3.9	2.2	2.6
RESPONSE: 03 AGE: 13	TEXT: may be either positive or negative depending on what X and Y are.																			
DELTA-P	29.8	4.8	-2.7	-1.9	0.3	-1.1	1.1	15.8*	-3.2*	3.4	4.0	1.3	-7.9*	15.8*	-0.8	1.9	-2.4	3.5	-4.0	-8.9*
STD ERR OF DP		2.7	2.3	2.5	3.3	1.0	1.0	2.8	0.7	3.4	3.2	1.8	1.0	5.2	3.9	2.9	2.5	3.5	3.2	3.7
STD ERR OF P	1.6	2.9	2.3	2.9	4.1	1.7	2.1	2.6	1.8	3.6	3.6	1.9	1.8	5.2	4.2	3.8	2.5	3.7	3.2	3.7
AGE: 17																				
DELTA-P	18.5	4.2	2.1	-0.5	-4.6*	-0.4	0.4	17.5*	-4.6*	9.1*	6.8*	1.6	-6.3*	7.9*	9.9	-1.1	-6.8*	4.8	-3.3	-2.6
STD ERR OF DP		2.8	2.0	2.0	1.7	1.2	1.0	2.8	0.8	4.1	2.3	1.4	1.1	2.8	5.3	1.5	2.5	4.5	2.4	3.5
STD ERR OF P	1.2	3.3	2.1	2.4	1.8	1.8	1.4	3.0	1.1	4.5	2.5	1.9	1.2	2.8	5.7	1.8	2.7	4.7	2.5	3.7
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	3.4	1.0	-2.0*	-0.3	1.4	-0.5	0.5	2.6*	-0.7*	3.0	0.5	-0.2	-1.5*	-0.6	0.4	0.7	-1.3	1.7	0.3	-1.8
STD ERR OF DP		1.5	0.7	0.7	1.1	0.5	0.5	1.3	0.3	2.0	1.8	0.5	0.4	1.5	2.3	0.7	0.9	1.4	0.9	1.0
STD ERR OF P	0.6	1.8	0.5	0.6	1.3	0.5	0.9	1.6	0.6	2.3	2.2	0.7	0.6	1.6	2.6	1.0	0.8	1.5	0.8	0.9
AGE: 17																				
DELTA-P	1.7	0.2	-0.4	-0.5	0.7	-0.5*	0.5*	-0.3	-0.1	0.0	1.5	0.6	-1.1*	0.3	-1.5*	0.4	-0.0	0.2	0.1	-0.9
STD ERR OF DP		0.6	0.5	0.5	0.6	0.2	0.2	0.7	0.2	0.9	0.9	0.4	0.3	0.9	0.4	0.4	0.7	1.2	0.7	0.5
STD ERR OF P	0.3	0.7	0.5	0.6	0.7	0.3	0.4	0.7	0.4	1.1	1.0	0.6	0.2	1.0	0.2	0.5	0.8	1.3	0.7	0.5

EXERCISE: BC25

Part B. If X and Y are both negative numbers, then X x Y

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: NO AGE: 13 TEXT: No Response.																				
DELTA-P	1.6	-1.1	1.0	1.0	-1.0	0.5	-0.5	0.8	-0.1	2.6	-0.2	0.5	-0.9*	0.4	3.6	-1.2	-1.1	3.3	-0.2	-1.6*
STD ERR OF DP		0.7	1.6	1.3	0.7	0.2	0.2	1.3	0.2	1.5	0.8	0.4	0.4	1.2	3.4	0.7	0.7	3.6	0.7	0.7
STD ERR OF P	0.7	0.3	2.1	1.6	0.3	0.9	0.5	1.8	0.7	2.1	0.9	1.0	0.4	1.0	3.9	0.2	0.4	4.0	0.7	0.0
AGE: 17																				
DELTA-P	0.1	-0.1	-0.1	0.3	-0.1	-0.0	0.0	0.4	-0.1	-0.1	-0.1	0.3	-0.1	-0.1	-0.1	0.0	-0.1	1.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.2	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	1.0	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.3	0.0	0.1	0.1	0.5	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	1.1	0.0	0.0
RESPONSE: 01 AGE: 13 TEXT: is negative.																				
DELTA-P	29.0	2.0	4.8	-2.4	-3.8	1.2	-1.1	-7.7#	1.6#	1.4	2.9	0.0	0.1	-5.0	-1.1	-1.2	3.7	-2.4	3.8	-0.8
STD ERR OF DP		2.5	2.5	2.6	2.1	1.1	1.1	2.1	0.5	2.8	3.8	1.5	1.3	4.3	6.7	2.2	3.3	3.4	3.5	3.6
STD ERR OF P	1.4	2.7	2.9	3.2	2.3	2.1	1.6	1.8	1.7	3.2	4.3	2.1	1.9	4.4	7.3	2.4	3.4	3.6	3.7	3.9
AGE: 17																				
DELTA-P	19.0	2.5	-0.2	1.6	-3.4	0.2	-0.2	1.7	-0.4	7.1	7.0#	4.3#	-7.3#	2.9	10.9	0.9	1.1	2.9	-2.3	-13.3#
STD ERR OF DP		2.0	1.7	2.2	2.0	1.3	1.1	2.7	0.6	6.4	2.5	1.3	1.2	3.0	5.5	1.8	2.5	4.9	2.4	2.1
STD ERR OF P	1.2	2.0	1.7	2.9	2.3	1.9	1.5	2.9	1.3	7.0	2.9	1.6	1.2	3.1	5.8	2.3	2.3	5.0	2.5	2.0
RESPONSE: 02* AGE: 13 TEXT: is positive.																				
DELTA-P	39.4	-7.3#	-1.8	4.9	3.0	-1.1	1.1	-13.6#	3.0#	-11.8#	-11.9#	-0.7	7.7#	-11.2#	-1.4	0.9	0.4	-8.7	0.5	12.6*
STD ERR OF DP		2.6	2.3	3.4	3.2	1.2	1.2	3.2	0.7	4.0	3.4	1.6	1.5	4.3	8.0	2.8	3.7	4.7	4.0	5.1
P-VALUE	39.4	32.1	37.6	44.3	42.3	38.3	40.4	25.8	42.3	27.6	27.5	38.7	47.1	28.2	38.0	40.3	39.7	30.7	39.9	52.0
STD ERR OF P	1.8	2.7	2.1	4.4	3.8	2.3	2.0	3.2	2.0	4.2	3.7	2.5	2.4	4.3	8.8	3.1	3.8	4.8	4.2	5.3
AGE: 17																				
DELTA-P	64.5	-7.0*	0.9	-0.7	5.5	0.8	-0.7	-20.9#	4.8#	-16.9#	-11.3#	-6.7#	15.3#	-14.4#	-12.4	0.7	1.7	-12.1*	4.2	20.8#
STD ERR OF DP		3.2	2.2	2.8	2.9	1.4	1.2	3.1	0.9	5.1	3.1	1.6	1.5	3.3	6.3	2.2	3.4	5.1	3.7	3.5
P-VALUE	64.5	57.4	65.3	63.8	69.9	65.2	63.8	43.6	69.2	47.6	53.2	57.8	79.8	50.1	52.1	65.1	66.2	52.4	68.7	85.2
STD ERR OF P	1.6	3.5	2.1	3.5	3.6	2.3	1.9	3.4	1.7	5.7	3.4	1.9	2.0	3.5	6.5	2.5	3.2	5.3	4.1	3.8
RESPONSE: 03 AGE: 13 TEXT: may be either positive or negative depending upon the size of X and Y.																				
DELTA-P	21.9	5.0*	0.0	-3.3	-1.0	0.2	-0.2	14.5#	-3.2#	6.8*	7.0	1.5	-5.7#	17.3#	0.6	0.9	-0.9	4.8	-5.3*	-10.3#
STD ERR OF DP		2.5	1.9	2.1	2.7	0.9	0.9	2.3	0.6	3.0	3.6	1.4	1.1	4.9	3.4	2.2	2.9	3.9	2.4	2.8
STD ERR OF P	1.3	2.9	1.9	2.5	3.3	1.7	1.6	2.7	1.3	3.0	4.1	2.0	1.6	5.1	3.6	2.7	3.0	4.4	2.5	2.8
AGE: 17																				
DELTA-P	10.7	3.6	-0.0	-1.0	-1.7	-0.8	0.7	15.4#	-3.0#	7.6*	2.8	1.4	-4.9#	9.0#	1.5	-1.8	-2.1	6.3	-2.0	-3.2
STD ERR OF DP		1.8	1.5	1.6	1.3	0.9	0.8	2.5	0.7	3.5	1.9	1.1	0.7	2.8	2.7	1.1	1.8	4.9	1.7	2.4
STD ERR OF P	0.9	2.1	1.6	2.0	1.4	1.3	1.1	2.9	0.8	3.7	2.1	1.4	1.0	3.1	2.6	1.0	1.8	5.3	1.9	2.5
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	8.1	1.4	-4.0#	-0.2	2.8*	-0.8	0.8	5.9#	-1.3#	1.0	2.2	-1.3	-1.3*	-1.6	-1.6	0.6	-2.0	3.0	1.2	-0.3
STD ERR OF DP		1.3	0.9	1.0	1.4	0.5	0.5	2.1	0.4	2.1	1.6	0.8	0.7	2.4	1.8	0.8	1.3	2.4	1.6	1.4
STD ERR OF P	0.6	1.5	0.8	1.1	1.7	0.8	0.9	2.4	0.5	2.3	1.6	1.0	1.0	2.6	1.9	0.9	1.4	2.6	1.7	1.5
AGE: 17																				
DELTA-P	5.7	1.1	-0.5	-0.2	-0.2	-0.2	0.2	3.5#	-1.3#	2.3	1,6	0.7	-3.0#	2.6	0.1	0.1	-0.6	1.9	0.2	-4.1#
STD ERR OF DP		1.1	1.0	1.0	1.0	0.6	0.5	1.2	0.4	2.4	1.2	0.8	0.7	1.5	2.4	0.7	1.0	3.3	1.8	0.9
STD ERR OF P	0.6	1.2	1.1	1.2	1.1	0.8	0.8	1.3	0.5	2.7	1.2	1.0	0.7	1.6	2.5	0.8	0.9	3.5	2.0	0.9

RC26
OBJ IV

A parking lot charges 35 cents for the first hour and 25 cents for each additional hour or fraction of an hour. For a car parked from 10:45 in the morning until 3:05 in the afternoon, how much money should be charged?

ANSWER ____________________

Report #: RC26

NAEP #: E11013-34

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		04-19	03-29
National P-value:			
	RC26	46.69	57.10

Timing: (in seconds)

		17	Adult
	Stimulus:	17	17
	Response:	46	*
RC26	Exercise total:	63	*

*Time not limited by paced tape.

SCORING GUIDE
RC26
E11013-34

00 = No Response

10 = $1.35; 135¢

11 = 1.35 with no sign or wrong sign

20 = $1.10; 1.10; 110

21 = $1.25; 1.25; 125

22 = $1.60; 1.60; 160

23 = $1.75; 1.75; 175

24 = $1.95; 1.95; 195

25 = $2.10; 2.10; 210

26 = Other responses between $1 and $2.50

27 = Other Unacceptable

EXERCISE: RC26

A parking lot charges 35¢ for the 1st hour and 25¢ for each additional or fractional hour. For a car parked from 10:45 a.m. until 3:05 p.m., how much money should be charged?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	1.9	0.2	-1.3*	0.9	0.1	0.3	-0.3	3.7#	-0.6#	-0.3	0.5	0.6	-1.0#	3.0*	-1.5#	-0.9	-1.4#	1.3	2.1	-0.4
STD ERR OF DP		0.6	0.5	1.0	0.7	0.3	0.3	0.9	0.2	1.0	1.0	0.5	0.3	1.2	0.6	0.6	0.6	1.4	1.9	1.2
STD ERR OF P	0.5	0.5	0.4	1.3	0.8	0.5	0.5	1.0	0.5	0.9	1.0	0.9	0.3	1.4	0.4	0.5	0.3	1.4	2.2	1.3
AGE: Ad																				
DELTA-P	0.4	-0.0	-0.4	-0.4	1.0	0.3	-0.3	2.8	-0.4	-0.0	-0.4	0.5	-0.4	2.6	-0.4	-0.0	-0.4	-0.4	-0.4	-0.4
STD ERR OF DP		0.4	0.3	0.3	0.9	0.3	0.3	2.4	0.3	0.4	0.3	0.6	0.3	2.6	0.3	0.3	0.3	0.3	0.3	0.3
STD ERR OF P	0.3	0.3	0.0	0.0	1.2	0.6	0.1	2.7	0.1	0.3	0.0	0.9	0.0	2.9	0.0	0.2	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	46.7	-12.5#	1.5	1.4	6.4#	2.5*	-2.6*	-24.5#	4.6#	-23.4#	-17.3#	-1.3	10.1#	-13.9#	-10.3	-4.0	1.1	9.7*	5.3	12.6#
STD ERR OF DP		2.4	2.4	2.1	1.9	1.1	1.2	2.8	0.6	3.5	2.6	1.7	1.5	3.2	6.2	2.2	3.1	4.4	3.7	2.8
P-VALUE	46.7	34.2	48.2	48.1	53.1	49.2	44.1	22.2	51.3	23.3	29.4	45.4	56.8	32.8	36.4	42.7	47.8	56.4	52.0	59.3
STD ERR OF P	1.3	2.5	2.8	2.6	2.1	1.6	1.8	2.7	1.4	3.6	2.9	2.1	1.8	2.8	6.4	2.3	3.3	4.4	4.1	3.0
AGE: Ad																				
DELTA-P	57.1	-7.1*	0.9	2.4	2.3	6.5#	-6.1#	-33.0#	4.9#	-8.6#	-1.8	-3.0	17.0#	-22.1#	-3.4	-0.6	-0.6	10.1#	5.9	8.3
STD ERR OF DP		3.1	2.5	1.9	2.3	1.5	1.4	4.0	0.9	2.6	3.2	2.5	2.5	4.1	4.0	1.6	3.9	3.8	4.3	5.0
P-VALUE	57.1	50.0	58.0	59.5	59.4	63.6	51.0	24.1	62.0	48.5	55.3	54.1	74.1	35.0	53.7	56.5	56.5	67.2	63.0	65.4
STD ERR OF P	1.4	3.5	3.2	2.0	2.6	2.0	2.0	4.1	1.4	3.0	3.5	2.9	2.6	4.2	4.0	1.7	4.1	3.7	4.7	5.6
RESPONSE: 10 AGE: 17	TEXT: $1.35; 135¢																			
DELTA-P	41.7	-12.6#	1.0	1.1	7.3#	1.5	-1.5	-23.6#	4.6#	-21.1#	-16.5#	-1.0	9.2#	-12.0#	-10.8	-3.0	1.3	7.5	4.9	10.9#
STD ERR OF DP		2.3	2.2	2.2	1.9	1.2	1.2	3.0	0.5	3.4	2.8	1.8	1.5	3.3	5.7	2.0	3.0	3.8	3.6	3.1
STD ERR OF P	1.3	2.4	2.4	2.9	2.2	1.7	1.8	2.9	1.4	3.5	2.9	2.2	1.9	3.1	6.0	2.2	3.2	3.8	4.0	3.4
AGE: Ad																				
DELTA-P	42.9	-2.6	0.1	1.9	-0.1	4.2#	-3.9#	-27.8#	4.8#	-9.3#	-3.0	0.5	13.4#	-17.4#	-1.5	0.2	0.5	8.0	0.2	7.0
STD ERR OF DP		2.9	2.8	1.9	2.1	1.4	1.3	3.3	0.7	2.1	2.8	2.2	1.9	3.7	4.2	1.9	4.6	5.4	5.0	5.1
STD ERR OF P	1.4	3.3	3.5	2.0	2.2	2.2	1.7	3.3	1.4	2.5	3.0	2.7	2.3	3.8	4.4	1.9	4.9	5.5	5.2	5.7
RESPONSE: 11 AGE: 17	TEXT: 1.35 with no sign or wrong sign																			
DELTA-P	5.0	0.1	0.6	0.4	-0.9	1.1*	-1.1*	-0.9	0.0	-2.3*	-0.8	-0.3	1.0	-1.9	0.5	-1.0	-0.2	2.2	0.4	1.7
STD ERR OF DP		1.0	1.2	1.0	0.9	0.5	0.5	1.1	0.3	1.1	1.4	0.8	0.7	1.2	3.2	0.8	0.9	1.5	1.5	2.3
STD ERR OF P	0.6	1.1	1.4	1.2	1.0	1.0	0.6	1.2	0.7	1.0	1.5	0.9	1.0	1.1	3.5	0.8	0.9	1.5	1.6	2.6
AGE: Ad																				
DELTA-P	14.2	-4.5#	0.8	0.5	2.4	2.3*	-2.2*	-5.1*	0.1	0.7	1.3	-3.5#	3.6*	-4.7	-1.9	-0.8	-1.1	2.1	5.7	1.3
STD ERR OF DP		1.3	1.5	1.7	1.9	1.1	1.0	2.3	0.5	1.7	2.3	1.4	1.8	2.4	3.6	1.2	2.3	3.1	2.9	2.6
STD ERR OF P	1.0	1.1	1.7	2.1	2.3	1.6	1.3	2.5	1.0	2.0	2.6	1.3	2.2	2.5	3.8	1.4	2.4	3.4	3.2	2.9
RESPONSE: 20 AGE: 17	TEXT: $1.10; 1.10; 110																			
DELTA-P	3.9	0.8	0.2	-0.9	0.2	-0.6	0.6	-2.9#	0.4#	4.2	-1.2	-0.7	0.1	-2.4#	-1.3	1.8	-0.4	-0.3	-0.4	-0.5
STD ERR OF DP		1.2	1.0	0.8	0.8	0.4	0.5	0.6	0.1	3.3	0.8	0.6	0.5	0.9	1.6	0.9	1.1	1.3	1.0	1.2
STD ERR OF P	0.5	1.3	1.1	1.0	0.9	0.6	0.8	0.4	0.6	3.6	0.9	0.7	0.7	0.8	1.7	1.2	1.1	1.3	1.2	1.3
AGE: Ad																				
DELTA-P	4.3	-1.0	0.9	-0.3	0.1	-0.2	0.2	-0.1	-0.2	-1.2	0.6	1.9	-1.8#	1.6	-0.3	0.1	-0.1	-3.2#	0.3	0.6
STD ERR OF DP		0.8	0.8	1.0	0.8	0.5	0.4	1.6	0.2	0.8	1.1	1.0	0.7	1.3	1.6	0.6	1.4	0.7	1.2	1.4
STD ERR OF P	0.5	0.8	0.9	1.3	0.9	0.8	0.6	1.6	0.6	0.8	1.4	1.2	0.7	1.5	1.7	0.8	1.4	0.9	1.2	1.6
RESPONSE: 21 AGE: 17	TEXT: $1.25; 1.25; 125																			
DELTA-P	1.2	0.7	-0.5	0.5	-0.7	0.0	-0.0	1.3	-0.2	1.0	0.5	-0.2	-0.2	1.5	-0.2	-0.4	-0.7	1.7	0.3	-0.8
STD ERR OF DP		0.6	0.4	0.7	0.4	0.2	0.2	1.3	0.2	0.7	0.8	0.4	0.3	1.7	0.7	0.4	0.4	1.3	0.7	0.4
STD ERR OF P	0.3	0.7	0.4	0.9	0.3	0.4	0.4	1.6	0.3	0.7	0.8	0.6	0.4	1.9	0.6	0.3	0.3	1.5	0.8	0.3

EXERCISE: RC26

A parking lot charges 35¢ for the 1st hour and 25¢ for each additional or fractional hour. For a car parked from 10:45 a.m. until 3:05 p.m., how much money should be charged?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad TEXT: $1.25; 1.25; 125																				
DELTA-P	2.1	-0.3	-0.1	1.0	-0.8	-0.9*	0.9*	-0.0	0.1	0.9	-1.4#	0.4	-0.2	1.4	-0.5	-0.8	0.2	0.0	-0.4	1.7
STD ERR OF DP		0.6	0.9	0.6	0.6	0.4	0.4	1.0	0.1	0.6	0.5	0.5	0.7	1.4	0.8	0.5	1.3	1.3	0.9	1.9
STD ERR OF P	0.4	0.6	1.1	0.6	0.6	0.4	0.7	1.0	0.5	0.7	0.4	0.6	1.0	1.4	0.8	0.4	1.4	1.2	0.9	2.2
RESPONSE: 22 AGE: 17 TEXT: $1.60; 1.60, 160																				
DELTA-P	9.3	0.8	0.1	-0.1	-0.6	0.1	-0.1	-1.7	0.3	-0.5	0.1	1.9	-0.8	-3.6	2.0	1.6	1.6	-3.9#	0.3	-2.6
STD ERR OF DP		1.2	1.3	1.2	1.1	0.6	0.6	1.6	0.3	3.2	2.0	1.2	0.6	1.9	2.5	1.0	1.7	1.4	1.6	1.9
STD ERR OF P	0.7	1.3	1.4	1.4	1.2	1.0	0.9	1.7	0.8	3.4	2.0	1.4	0.9	2.0	2.7	1.2	1.4	1.4	1.8	1.9
AGE: Ad																				
DELTA-P	11.1	-0.6	0.3	1.1	-1.2	-1.1	1.1	-1.1	0.6	-0.2	-0.5	3.3	-3.7#	0.6	1.6	0.7	-2.1	-0.7	-1.3	-0.2
STD ERR OF DP		1.4	2.0	1.5	1.6	1.1	1.0	2.3	0.4	1.9	2.0	2.4	1.2	2.7	2.3	1.2	1.8	2.2	2.3	4.3
STD ERR OF P	1.0	1.3	2.6	1.7	1.7	1.8	1.0	2.2	1.2	1.7	1.9	3.2	1.1	2.6	2.3	1.4	1.7	2.2	2.3	5.0
RESPONSE: 23 AGE: 17 TEXT: $1.75; 1.75; 175																				
DELTA-P	0.5	0.4	-0.5#	0.1	-0.0	0.0	-0.0	0.0	-0.1	-0.5#	1.2	0.3	-0.3	-0.3	-0.2	-0.2	0.5	-0.3	-0.0	0.4
STD ERR OF DP		0.4	0.2	0.3	0.3	0.2	0.2	0.3	0.1	0.2	0.9	0.3	0.2	0.3	0.3	0.2	0.6	0.2	0.4	0.7
STD ERR OF P	0.2	0.5	0.0	0.4	0.4	0.3	0.2	0.3	0.2	0.0	1.0	0.4	0.1	0.2	0.3	0.2	0.7	0.2	0.5	0.7
AGE: Ad																				
DELTA-P	1.2	0.7	-0.6	-0.3	0.4	0.1	-0.1	1.7	-0.2	0.2	0.0	0.0	-0.7	0.9	-0.3	-0.1	0.5	-1.2#	0.9	-0.7
STD ERR OF DP		0.5	0.3	0.3	0.5	0.3	0.3	1.2	0.2	0.5	0.6	0.4	0.4	1.2	0.7	0.4	0.8	0.2	1.0	0.5
STD ERR OF P	0.2	0.5	0.3	0.4	0.6	0.4	0.3	1.4	0.2	0.5	0.7	0.5	0.4	1.2	0.6	0.4	0.9	0.0	1.1	0.5
RESPONSE: 24 AGE: 17 TEXT: $1.95; 1.95; 195																				
DELTA-P	0.5	0.4	0.1	0.1	-0.4*	0.1	-0.1	-0.5#	-0.1	0.5	-0.3	0.1	-0.1	0.0	-0.3	0.3	-0.3	-0.5#	0.4	-0.3
STD ERR OF DP		0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.9	0.3	0.2	0.2	0.5	0.3	0.3	0.3	0.2	0.5	0.2
STD ERR OF P	0.2	0.5	0.3	0.4	0.1	0.3	0.2	0.0	0.2	1.0	0.3	0.3	0.2	0.5	0.2	0.4	0.2	0.0	0.6	0.2
AGE: Ad																				
DELTA-P	0.3	0.2	-0.1	-0.1	0.0	0.0	-0.0	1.2	-0.2	0.3	-0.1	-0.1	-0.2	1.9	-0.3#	-0.0	-0.3#	-0.3#	-0.3#	-0.3#
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.8	0.1	0.3	0.3	0.2	0.2	1.0	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.2	0.2	0.3	0.2	0.2	0.8	0.1	0.3	0.3	0.2	0.1	1.1	0.0	0.2	0.0	0.0	0.0	0.0
RESPONSE: 25 AGE: 17 TEXT: $2.10; 2.10; 210																				
DELTA-P	2.3	-0.2	-0.2	0.3	0.1	-0.4	0.4	0.9	-0.1	0.1	0.5	0.2	-0.4	0.8	-0.5	-0.7	0.8	-1.2	0.5	0.7
STD ERR OF DP		0.6	0.5	0.8	0.7	0.4	0.4	1.0	0.2	1.7	1.0	0.6	0.4	1.3	1.0	0.6	0.6	0.8	1.7	1.2
STD ERR OF P	0.4	0.6	0.5	1.1	0.8	0.5	0.7	1.0	0.5	1.7	1.0	0.8	0.5	1.3	1.0	0.5	0.6	0.8	2.0	1.3
AGE: Ad																				
DELTA-P	0.9	0.3	-0.1	0.3	-0.5	-0.1	0.1	-0.6	0.1#	-0.1	-0.1	0.3	-0.3	-0.1	0.6	-0.1	-0.0	-0.6	1.0	-0.4
STD ERR OF DP		0.4	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.5	0.4	0.3	0.6	0.7	0.2	0.5	0.4	0.8	0.5
STD ERR OF P	0.2	0.5	0.4	0.5	0.2	0.3	0.3	0.4	0.2	0.4	0.6	0.5	0.3	0.6	0.7	0.3	0.6	0.3	0.9	0.5
RESPONSE: 26 AGE: 17 TEXT: Other responses between $1.00 and $2.50																				
DELTA-P	18.3	-0.1	0.6	-0.1	-0.3	-1.9*	1.9*	-2.7	-0.0	7.1*	7.0#	-1.2	-1.3	1.6	6.3#	1.1	0.0	-3.7	-3.1	-2.1
STD ERR OF DP		1.3	1.7	1.4	1.4	0.9	0.9	1.5	0.4	3.5	2.5	1.3	1.1	2.3	2.4	1.4	1.9	2.7	2.2	2.4
STD ERR OF P	0.9	1.3	2.0	1.8	1.6	1.0	1.4	1.5	1.0	3.6	2.7	1.5	1.4	2.4	2.5	1.5	2.0	2.8	2.6	2.5
AGE: Ad																				
DELTA-P	12.8	5.5#	-0.5	-2.0	-1.8	-2.0#	1.9#	12.4#	-2.3#	2.3	3.2	-0.4	-4.4#	4.8	2.2	0.9	1.7	-1.1	-5.5#	-3.2
STD ERR OF DP		2.2	1.3	1.4	1.2	0.8	0.7	2.7	0.5	1.6	1.9	1.2	1.4	2.6	2.9	0.9	2.5	2.9	1.8	2.0
STD ERR OF P	0.9	2.6	1.5	1.7	1.2	1.1	1.1	2.9	0.8	1.9	2.1	1.5	1.5	2.7	3.1	1.2	2.7	3.0	1.9	2.1

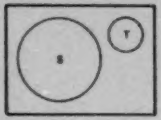
EXERCISE: RC26

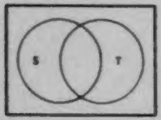
A parking lot charges 35¢ for the 1st hour and 25¢ for each additional or fractional hour. For a car parked from 10:45 a.m. until 3:05 p.m., how much money should be charged?

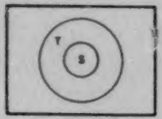
	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 27 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	10.5	6.2#	-0.6	-1.3	-2.7*	-0.1	0.1	17.6#	-2.9#	8.1#	3.7	1.0	-4.1#	6.5#	6.0*	0.8	-1.2	0.9	-5.0#	-4.0#
STD ERR OF DP		1.6	1.3	1.0	1.2	0.7	0.7	2.5	0.5	3.0	2.1	1.1	0.7	2.4	3.0	1.2	1.7	2.4	1.3	1.6
STD ERR OF P	0.7	1.8	1.4	1.1	1.5	1.0	1.0	2.6	0.6	3.1	2.2	1.4	0.8	2.5	3.1	1.4	1.9	2.5	1.3	1.7
AGE: Ad																				
DELTA-P	4.9	-0.2	-0.1	-1.1	1.5	-0.8	0.8	7.0#	-1.0#	2.4*	-1.1	-0.5	-2.1*	6.3	-0.6	-0.8	0.9	-1.4	-0.2	-1.6
STD ERR OF DP		0.9	1.1	0.9	0.9	0.5	0.5	2.6	0.3	1.1	1.1	0.7	0.8	3.2	1.3	0.7	1.5	1.5	1.7	1.6
STD ERR OF P	0.6	1.0	1.3	1.0	0.9	0.8	0.7	2.9	0.5	1.3	1.1	0.9	0.9	3.5	1.2	0.7	1.5	1.5	1.8	1.8
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	4.9	3.4*	0.6	-1.0	-2.0*	-0.1	0.1	8.7#	-1.4#	3.7	5.2#	-0.8	-2.0#	6.9#	0.1	0.5	-0.1	-3.8#	-0.3	-3.1#
STD ERR OF DP		1.4	1.0	0.9	0.8	0.6	0.6	2.0	0.3	2.0	1.7	0.7	0.5	1.9	1.8	0.9	1.1	0.8	1.4	1.1
STD ERR OF P	0.6	1.7	1.1	1.0	0.9	0.9	0.7	2.2	0.6	2.1	1.9	0.8	0.7	2.1	1.9	1.1	1.2	0.7	1.5	1.1
AGE: Ad																				
DELTA-P	4.9	2.5	-0.3	-0.7	-1.0	-1.8#	1.7#	8.0#	-1.5#	3.9#	1.5	-2.4#	-3.2#	2.2	1.5	0.7	0.3	-1.1	-0.0	-3.8#
STD ERR OF DP		1.9	0.8	1.0	0.8	0.7	0.6	3.1	0.5	1.4	1.3	0.7	0.7	1.5	1.8	0.7	1.6	1.8	1.8	0.9
STD ERR OF P	0.6	2.2	0.8	1.3	0.7	0.6	1.1	3.5	0.5	1.8	1.4	0.6	0.7	1.7	1.9	1.0	1.8	1.8	1.9	0.7

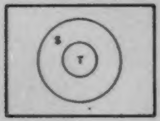
RD01
OBJ I

Which one of the following diagrams illustrates the statement, "Set S is a subset of Set T"?

○ 

○ 

● 

○ 

○ I don't know.

Report #: RD01

NAEP #: S10004-23

Content Area: D. SETS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		01-12	01-26
National P-value:			
	RD01	59.26	75.98

Timing: (in seconds)			
	Stimulus:	11	10
	Response:	19	20
	I don't know:	5	5
	Pause:	6	5
RD01	Exercise total:	41	40

EXERCISE: RD01

Which one of the following diagrams (2 circles in a rectangle) illustrates the statement, "Set S is a subset of Set T"?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.2	-0.2*	-0.2*	-0.2*	0.6	-0.1	0.1	0.0	-0.0	-0.2*	0.9	-0.2*	-0.1	-0.2*	-0.2*	-0.1	-0.2*	0.7	0.0	-0.2*
STD ERR OF DP		0.1	0.1	0.1	0.3	0.1	0.1	0.2	0.1	0.1	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.2	0.1
STD ERR OF P	0.1	0.0	0.0	0.0	0.4	0.1	0.2	0.2	0.1	0.0	1.1	0.0	0.1	0.0	0.0	0.1	0.0	0.5	0.2	0.0
AGE: 17																				
DELTA-P	0.6	-0.5	-0.5	-0.2	1.1	-0.2	0.2	2.2	-0.4	-0.6*	-0.6*	-0.6*	-0.2	2.3	-0.6*	-0.4	0.2	1.3	-0.3	-0.6*
STD ERR OF DP		0.3	0.3	0.4	0.7	0.2	0.2	1.2	0.3	0.3	0.3	0.3	0.3	2.0	0.3	0.3	0.8	0.8	0.4	0.3
STD ERR OF P	0.3	0.1	0.1	0.4	1.0	0.2	0.4	1.5	0.1	0.0	0.0	0.0	0.2	2.2	0.0	0.1	0.8	1.0	0.3	0.0
RESPONSE: 01 AGE: 13 TEXT: Set S and Set T independent																				
DELTA-P	5.6	0.8	2.5	-1.7	-1.0	0.1	-0.1	3.6*	-1.4#	5.3	2.4	0.8	-2.1#	7.2#	5.9	-0.9	-0.2	-0.6	-1.2	-3.2#
STD ERR OF DP		1.0	1.7	1.2	1.0	0.5	0.5	1.7	0.5	3.6	2.2	1.0	0.5	2.3	3.2	0.8	1.2	1.5	1.4	1.3
STD ERR OF P	0.8	0.9	2.2	1.5	1.0	0.9	0.9	1.8	0.6	4.0	2.3	1.2	0.7	2.6	3.6	0.9	1.1	1.7	1.5	1.3
AGE: 17																				
DELTA-P	3.6	-0.4	-0.2	0.4	0.1	-0.2	0.2	0.2	-0.4	-1.0	1.6	-0.1	-1.1*	2.5	1.9	-0.5	0.0	1.0	-0.7	-1.1
STD ERR OF DP		0.8	1.1	1.0	0.9	0.5	0.5	1.3	0.3	1.3	1.4	0.7	0.5	1.5	1.8	0.6	1.3	2.6	1.0	1.6
STD ERR OF P	0.6	0.8	1.4	1.1	1.1	0.8	0.8	1.3	0.6	1.5	1.6	0.8	0.7	1.8	1.8	0.7	1.5	2.8	1.0	1.7
RESPONSE: 02 AGE: 13 TEXT: Set S and Set T intersect																				
DELTA-P	23.3	3.5	3.2	-4.7*	-0.1	-0.3	0.3	13.0#	-2.6#	2.5	2.2	2.9	-7.2#	16.5#	-2.5	2.5	2.9	-2.1	-3.0	-8.7*
STD ERR OF DP		2.3	2.6	2.0	2.9	1.2	1.2	3.3	0.6	3.5	2.8	1.7	1.1	3.8	3.1	1.7	2.8	3.4	3.4	3.7
STD ERR OF P	1.4	2.4	2.9	2.3	3.5	1.8	1.9	3.5	1.4	3.7	3.2	2.3	1.5	3.8	3.3	2.0	3.1	3.8	3.6	4.0
AGE: 17																				
DELTA-P	13.0	1.9	3.5	-3.0*	-2.1	-2.1	2.0	10.1#	-2.2#	9.1#	11.9#	1.5	-5.6#	8.0#	4.4	-1.2	-2.4	2.5	2.4	-6.3#
STD ERR OF DP		1.8	2.3	1.4	1.6	1.1	1.1	2.5	0.5	2.7	2.8	1.1	0.8	2.6	3.6	1.1	2.0	2.4	2.7	1.6
STD ERR OF P	1.0	2.0	2.9	1.3	1.8	1.5	1.5	2.8	1.0	2.9	2.9	1.7	1.0	2.8	3.7	1.4	2.2	2.3	3.2	1.7
RESPONSE: 03* AGE: 13 TEXT: Set S a subset of Set T																				
DELTA-P	58.3	-10.2#	-7.3*	9.6#	3.5	-1.1	1.2	-28.8#	7.2#	-18.6#	-9.8#	-4.7*	14.7#	-28.4#	-7.0	-1.4	-5.1	1.8	5.4	18.5#
STD ERR OF DP		2.8	3.4	2.6	2.7	1.2	1.2	3.2	1.1	5.8	3.6	2.1	1.5	3.7	7.4	2.2	3.6	3.4	3.9	3.8
P-VALUE	58.3	48.1	51.0	67.8	61.8	57.2	59.4	29.5	65.5	39.7	48.5	53.6	72.9	29.9	51.3	56.8	53.1	60.0	63.7	76.8
STD ERR OF P	1.7	2.8	4.0	3.3	2.9	1.8	2.3	3.1	1.5	6.3	4.1	2.4	2.0	3.8	8.0	2.4	3.8	3.6	4.0	3.7
AGE: 17																				
DELTA-P	76.0	-3.1	-2.3	2.5	2.3	1.8	-1.7	-23.1#	4.5#	-12.8#	-15.1#	-2.0	9.8#	-20.3#	-7.3*	2.8	2.3	-6.9	-0.8	11.9#
STD ERR OF DP		2.9	3.4	2.2	2.5	1.4	1.3	3.0	0.8	3.7	3.1	1.7	1.1	4.8	3.3	1.7	3.0	5.1	3.6	2.4
P-VALUE	76.0	72.9	73.7	78.5	78.3	77.7	74.3	52.8	80.5	63.2	60.9	74.0	85.7	55.7	68.7	78.7	78.3	69.1	75.2	87.9
STD ERR OF P	1.6	3.2	4.3	2.1	2.9	2.1	2.0	3.4	1.5	3.9	3.1	2.1	1.7	5.2	3.1	2.2	3.3	5.4	4.0	2.4
RESPONSE: 04 AGE: 13 TEXT: Set T a subset of Set S																				
DELTA-P	7.2	5.0#	1.5	-3.2#	-1.6	0.6	-0.6	7.2#	-2.2#	8.7*	4.8*	0.3	-2.8#	0.5	3.5	-0.0	2.2	1.8	-1.5	-5.6#
STD ERR OF DP		1.4	1.6	1.1	1.1	0.7	0.7	2.5	0.6	3.6	2.1	0.9	0.8	1.3	4.1	0.9	2.2	1.6	1.3	1.0
STD ERR OF P	0.7	1.6	2.0	1.2	1.2	0.9	1.1	2.7	0.6	4.0	2.4	1.1	0.7	1.2	4.6	0.9	2.5	1.7	1.4	0.8
AGE: 17																				
DELTA-P	3.4	0.3	0.9	-0.5	-0.7	0.2	-0.2	4.8#	-0.7#	2.8	1.0	0.6	-1.3#	6.1#	1.3	-1.1*	-1.1	1.5	1.3	-2.5#
STD ERR OF DP		0.9	0.9	0.7	0.7	0.5	0.5	1.4	0.2	2.3	1.1	0.7	0.5	2.0	2.0	0.5	1.1	1.7	1.8	0.7
STD ERR OF P	0.5	1.0	1.2	0.7	0.8	0.8	0.5	1.6	0.4	2.5	1.1	0.9	0.6	2.0	2.1	0.6	1.1	1.8	2.0	0.5
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	5.5	1.1	0.2	0.2	-1.3	0.8	-0.9	5.0#	-1.0#	2.3	-0.6	0.9	-2.5#	4.4	0.2	-0.1	0.5	-1.6	0.2	-0.9
STD ERR OF DP		1.0	1.0	1.0	0.9	0.5	0.5	1.4	0.3	2.1	1.4	0.7	0.6	2.5	1.9	0.8	1.3	1.1	1.9	1.6
STD ERR OF P	0.6	1.1	1.1	1.3	1.0	0.8	0.9	1.6	0.7	2.3	1.5	1.0	0.7	2.5	2.1	1.0	1.5	1.2	2.1	1.6

EXERCISE: RD01

Which one of the following diagrams (2 circles in a rectangle) illustrates the statement, "Set S is a subset of Set T"?

RESPONSE: 09 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.6	1.9	-1.5*	0.8	-0.7	0.5	-0.5	5.8*	-0.8*	2.5	1.3	0.6	-1.5*	0.7	0.4	0.4	1.0	0.8	-1.8*	-1.4
STD ERR OF DP		1.0	0.6	0.6	0.7	0.4	0.4	1.5	0.2	1.4	1.5	0.7	0.4	1.4	1.4	0.6	1.1	1.2	0.7	0.9
STD ERR OF P	0.4	1.2	0.6	0.7	0.8	0.6	0.5	1.7	0.4	1.6	1.5	0.9	0.5	1.5	1.4	0.8	1.2	1.2	0.8	1.0

RD02
OBJ III

{6, 3, 2, 7}

How many elements are in the above set?

ANSWER ____________________

Report #: RD02

NARP #: D20001-1

Content Area: D. SETS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		02-11
National P-value:		
	RD02	49.97

Timing: (in seconds)

	Stimulus:	3
	Response:	16
RD02	Exercise total:	19

SCORING GUIDE
RD02
D20001-1

00 = No Response

10 = 4; 4 elements

20 = 2, 3, 6, 7 (a listing of the elements)

21 = 1; 1 set

22 = 18; attempt to add 6 + 3 + 2 + 7

23 = Other Unacceptable

39 = I Don't Know.

EXERCISE: RD02

How many elements are in the set {6,3,2,7}?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	3.1	0.9	-0.1	-1.0	0.2	0.8*	-0.8*	4.9#	-1.0#	4.8	0.4	-0.9	-0.7	3.2	0.3	-0.4	0.5	-1.2	-0.8	-0.8
STD ERR OF DP		1.0	0.8	0.7	0.9	0.4	0.4	1.6	0.3	2.5	1.7	0.6	0.6	1.7	1.1	0.7	1.3	1.3	1.0	1.1
STD ERR OF P	0.5	1.2	0.9	0.8	1.0	0.7	0.5	1.8	0.5	2.8	1.7	0.6	0.7	1.8	1.1	0.9	1.3	1.4	1.1	1.2
RESPONSE: 10* AGE: 9 TEXT: 4; 4 elements																				
DELTA-P	49.1	-2.0	0.4	-0.8	2.2	-3.8#	3.7#	-13.6#	3.2#	-3.5	-4.4	1.5	2.5	-10.6#	-2.2	0.3	2.3	-3.2	9.4*	2.1
STD ERR OF DP		2.5	2.7	3.2	3.5	1.1	1.1	3.3	0.8	4.4	3.5	2.3	1.9	4.0	[illegible]	2.6	4.8	6.9	4.2	4.1
P-VALUE	49.1	47.1	49.5	48.2	51.3	45.3	52.7	35.5	52.3	45.5	44.7	50.6	51.6	38.4	[illegible]	49.4	51.4	45.8	58.4	51.2
STD ERR OF P	1.8	2.5	2.8	3.8	4.4	2.0	2.2	3.5	1.9	4.9	3.8	2.5	2.8	4.1	[illegible]	2.9	5.0	7.2	4.9	4.9
RESPONSE: 20 AGE: 9 TEXT: 2,3,6,7; (a listing of the elements)																				
DELTA-P	1.2	0.1	0.0	0.3	-0.4	0.1	-0.1	0.8	-0.1	0.4	-0.3	-0.6	0.1	0.7	-0.5	0.1	-0.9#	-0.9*	-0.2	1.1
STD ERR OF DP		0.5	0.6	0.6	[illegible]	0.2	0.2	0.9	0.2	1.1	0.9	0.4	0.3	1.1	0.6	0.4	0.4	0.4	0.7	1.0
STD ERR OF P	0.3	0.5	0.6	0.8	0.4	0.4	0.3	1.0	0.4	1.2	0.9	0.3	0.4	1.2	0.6	0.6	0.3	0.3	0.7	1.2
RESPONSE: 21 AGE: 9 TEXT: 1; 1 set																				
DELTA-P	1.3	-1.0#	0.3	0.7	-0.1	0.2	-0.2	-0.4	-0.0	0.6	0.6	0.4	0.1	0.5	-0.8*	-0.2	-0.7	-1.3#	1.4	0.5
STD ERR OF DP		0.3	0.5	0.5	0.4	0.3	0.3	0.5	0.1	1.1	1.1	0.5	0.4	0.7	0.3	0.3	0.4	0.2	1.1	0.8
STD ERR OF P	0.2	0.2	0.6	0.6	0.4	0.4	0.3	0.4	0.3	1.1	1.2	0.6	0.5	0.7	0.3	0.4	0.3	0.0	1.3	0.8
RESPONSE: 22 AGE: 9 TEXT: 18; attempt to add 6 + 3 + 2 + 7																				
DELTA-P	0.5	0.3	-2.5	-0.0	1.9	0.9	-0.9	-1.2	0.2	2.1	-4.0*	-0.6	0.4	1.8	-1.9	1.2	-0.8	-1.9	1.3	-2.6
STD ERR OF DP		1.5	1.3	1.0	1.8	0.6	0.6	1.4	0.3	3.0	1.8	1.0	1.2	2.2	2.3	1.2	2.5	2.4	2.2	1.9
STD ERR OF P	0.9	1.7	1.4	0.8	2.3	1.1	1.0	1.6	1.0	3.2	1.8	1.2	1.7	2.3	2.4	1.7	2.8	2.3	2.2	1.9
RESPONSE: 23 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	20.5	6.5#	0.9	-1.7	-4.9#	1.9*	-1.8*	12.8#	-2.8#	3.1	9.9#	0.8	-1.4	6.7*	2.6	0.4	-0.7	7.7	-5.7*	-5.7*
STD ERR OF DP		1.9	2.0	1.3	1.8	0.9	0.9	3.1	0.6	3.4	3.5	1.7	1.7	3.3	4.2	1.7	2.3	5.8	2.5	2.4
STD ERR OF P	1.1	2.3	2.3	1.1	2.3	1.4	1.3	3.5	1.0	3.6	3.9	2.0	1.9	3.6	4.6	2.0	2.0	6.1	2.5	2.3
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	16.3	-4.8*	0.9	2.6	1.0	-0.1	0.1	-3.3	0.5	-7.4#	[illegible]	-0.6	-1.0	1.8	2.5	-1.4	0.3	0.9	-5.4*	5.4
STD ERR OF DP		2.4	2.0	2.5	2.5	1.1	1.1	3.2	0.6	2.6	4.4	1.4	1.5	4.6	4.3	1.6	2.3	5.3	2.3	3.5
STD ERR OF P	1.4	2.7	1.9	3.0	3.0	1.7	1.8	3.6	1.5	2.9	4.5	1.8	2.0	5.0	4.7	1.8	2.2	5.5	2.7	3.9

RD03
OBJ I

If R is the set of all red cars and S is the set of all sports cars, which one of the following describes the set of all red sports cars?

- ○ The complement of R
- ○ The complement of S
- ○ The union of R and S
- ● The intersection of R and S

- ○ I don't know

Report #: RD03

NAEP #: B20021-23

Content Area: B. SETS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		06-03	10-13
National P-value:			
	RD03	29.24	43.68
Timing: (in seconds)			
	Stimulus:	21	20
	Response:	22	20
	I don't know:	5	5
	Pause:	6	6
RD03	Exercise total:	54	51

EXERCISE: BD03

If R is the set of all red cars and S is the set of all sports cars, which one of the following describes the set of all red sports cars?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.0	0.0	0.1	-0.0	-0.0	-0.0	0.0	0.3	-0.0	0.4	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	0.2	-0.0
STD ERR OF DP		0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
STD ERR OF P	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
AGE: 17																				
DELTA-P	0.1	-0.0	-0.1*	0.0	0.2	-0.0	0.0	0.3	-0.0	-0.1*	-0.1*	0.1	-0.1*	0.7	-0.1*	-0.1	0.0	-0.1	-0.1	-0.1*
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.3	0.1	0.0	0.0	0.1	0.0	0.5	0.0	0.1	0.2	0.1	0.1	0.0
RESPONSE: 01 AGE: 13	TEXT: The complement of R																			
DELTA-P	13.9	-3.3*	4.1*	-3.4	2.8	-1.1	1.0	-0.4	-0.4	-0.8	-0.1	1.0	-0.8	-1.4	-4.1	0.6	-1.7	0.2	5.5*	-1.5
STD ERR OF DP		1.6	1.7	1.8	1.8	1.0	0.9	2.2	0.4	3.0	2.6	1.1	0.9	3.5	2.7	1.6	1.8	2.0	2.7	2.0
STD ERR OF P	1.0	1.6	2.0	2.3	2.0	1.5	1.4	2.1	1.2	3.1	2.7	1.8	1.2	3.5	2.8	2.1	1.7	1.9	2.9	2.1
AGE: 17																				
DELTA-P	6.1	2.5	0.3	-0.1	-2.3#	0.3	-0.3	2.7*	-0.7#	8.9#	0.1	0.5	-2.6#	3.5*	4.2	-0.8	-0.5	4.1	-2.0*	-2.6#
STD ERR OF DP		1.5	0.9	0.9	0.7	0.6	0.5	1.4	0.3	2.5	1.5	0.9	0.6	1.6	2.5	0.6	1.4	2.9	1.0	1.0
STD ERR OF P	0.6	1.7	1.0	1.0	0.7	0.9	0.6	1.5	0.6	2.5	1.6	1.0	0.6	1.7	2.6	0.7	1.6	3.1	0.9	1.1
RESPONSE: 02 AGE: 13	TEXT: The complement of S																			
DELTA-P	6.1	-0.2	1.0	-1.5	0.9	-0.6	0.6	-1.8	0.3	-0.6	2.7	0.5	-0.9	-0.7	1.7	0.5	-2.5*	2.0	0.4	-1.2
STD ERR OF DP		1.0	1.1	0.9	1.2	0.5	0.5	1.4	0.2	1.8	2.6	0.8	0.6	1.4	2.5	0.8	1.1	2.6	1.2	1.4
STD ERR OF P	0.6	1.0	1.3	1.1	1.4	0.7	0.9	1.4	0.7	2.0	2.8	1.1	0.7	1.4	2.7	0.9	1.1	2.8	1.3	1.5
AGE: 17																				
DELTA-P	4.1	-0.6	0.4	0.7	-0.7	-0.1	0.1	-0.7	0.1	-0.2	0.8	-0.7	0.4	1.2	0.9	1.2	-2.2#	-1.1	-0.1	-1.5
STD ERR OF DP		0.7	0.7	0.8	0.7	0.4	0.4	0.8	0.2	2.0	1.4	0.6	0.6	1.0	2.1	0.8	0.8	1.4	1.2	1.0
STD ERR OF P	0.5	0.8	0.8	1.1	0.8	0.6	0.6	0.8	0.5	2.0	1.5	0.7	0.8	0.9	2.1	1.0	0.8	1.4	1.4	1.0
RESPONSE: 03 AGE: 13	TEXT: The union of R and S																			
DELTA-P	48.1	3.9	-3.6	1.3	-1.5	1.0	-0.9	-0.0	0.1	4.5	-0.4	2.9	-1.5	2.5	2.4	2.6	-2.0	-2.0	-2.6	-4.1
STD ERR OF DP		2.4	2.4	2.4	1.8	1.5	1.4	3.4	0.6	5.8	4.9	1.6	1.7	6.6	4.5	1.7	3.4	3.2	3.4	2.5
STD ERR OF P	1.3	2.7	2.8	3.1	1.6	2.0	2.0	3.8	1.3	5.9	5.1	2.1	2.1	7.1	4.9	1.9	3.8	3.1	3.5	2.6
AGE: 17																				
DELTA-P	41.7	-0.2	2.9	-5.0*	2.9	-1.9	1.7	6.9#	-1.6*	3.6	15.7#	1.3	-7.1#	3.1	9.6	0.9	0.4	-1.7	-0.2	-11.5#
STD ERR OF DP		3.0	1.9	2.2	2.4	1.3	1.2	2.6	0.7	4.3	3.2	1.6	1.4	3.4	5.1	1.7	3.0	4.4	2.8	4.0
STD ERR OF P	1.4	3.5	1.9	2.6	2.8	2.0	1.8	2.6	1.7	4.1	3.2	2.2	2.0	3.4	5.0	2.2	3.6	4.5	3.1	4.3
RESPONSE: 04* AGE: 13	TEXT: The intersection of R and S																			
DELTA-P	29.2	-0.8	-2.2	3.2	-0.8	0.6	-0.6	0.9	0.2	-2.7	-0.6	-4.4#	3.8*	-3.1	-0.4	-3.7*	6.1	0.4	-3.0	7.9#
STD ERR OF DP		2.8	2.3	2.3	2.1	1.1	1.0	3.5	0.5	4.8	3.5	1.7	1.5	3.3	4.3	1.8	3.2	4.3	2.8	2.7
P-VALUE	29.2	28.5	27.0	32.4	28.4	29.9	28.7	30.2	29.5	26.5	28.6	24.9	33.0	26.2	28.9	25.5	35.3	29.6	26.2	37.2
STD ERR OF P	1.4	3.3	2.7	2.8	2.1	1.7	1.7	3.6	1.6	4.9	3.7	2.0	2.0	3.3	4.6	2.4	3.7	4.3	2.7	2.7
AGE: 17																				
DELTA-P	43.7	-2.5	-4.7#	5.5#	0.5	1.8	-1.7	-13.8#	3.1#	-17.4#	-16.7#	-0.8	11.0#	-7.8*	-12.8#	-0.4	-0.5	-2.1	1.4	17.4#
STD ERR OF DP		2.9	1.8	2.1	2.5	1.3	1.2	3.0	0.7	3.8	2.7	1.9	1.5	3.7	4.8	1.5	3.0	6.1	3.4	4.7
P-VALUE	43.7	41.2	39.0	49.2	44.2	45.5	42.0	29.8	46.8	26.3	27.0	42.9	54.7	35.9	30.9	43.3	43.2	41.6	45.1	61.1
STD ERR OF P	1.4	3.4	1.6	2.5	3.1	1.9	1.9	3.1	1.6	3.2	2.3	2.4	2.1	3.7	4.7	1.9	3.5	6.1	3.6	5.0
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	2.7	0.3	0.6	0.4	-1.4#	0.1	-0.1	1.0	-0.1	-0.7	-1.5*	0.0	-0.6	2.7*	0.4	-0.0	0.2	-0.5	-0.5	-1.1
STD ERR OF DP		0.7	0.7	0.7	0.5	0.5	0.4	1.0	0.2	1.1	0.6	0.7	0.5	1.2	1.7	0.6	1.0	0.9	0.8	0.7
STD ERR OF P	0.4	0.8	0.8	0.9	0.4	0.6	0.6	1.1	0.4	1.0	0.6	0.8	0.6	1.3	1.8	0.7	1.0	0.9	0.9	0.8

EXERCISE: RD03

If R is the set of all red cars and S is the set of all sports cars, which one of the following describes the set of all red sports cars?

RESPONSE: 09 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	4.3	0.7	1.2	-1.1	-0.6	-0.1	0.1	4.6*	-0.9*	5.2*	0.7	-0.5	-1.6*	-0.6	-1.8	-0.8	2.8*	0.9	1.0	-1.7
STD ERR OF DP		1.2	0.9	0.7	0.9	0.5	0.4	1.9	0.4	1.8	1.0	0.6	0.6	1.1	1.0	0.6	1.2	2.8	1.4	1.3
STD ERR OF P	0.5	1.5	1.0	0.7	1.0	0.7	0.7	2.3	0.4	1.9	1.0	0.8	0.6	1.1	0.9	0.5	1.3	3.0	1.7	1.3

RD04
OBJ II

Answer the following problem.

Given A = {2, 4, 5} and B = {1, 2, 3, 6}, what is A∪B?

ANSWER ____________________

Report #: RD04

NAEP #: D20035-1234

Content Area: D. SETS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		9	13	17	Adult
Age:					
Package-Exercise:		04-08	09-18	04-04	02-19
National P-value:					
	RD04	5.12	42.80	55.05	5.26
Timing: (in seconds)					
	Stimulus:	2	2	1	2
	Response:	30	31	30	*
RD04	Exercise total:	32	33	31	*

*Time not limited by paced tape.

SCORING GUIDE
RD04
D20035-1234

00 = No Response

10 = {1, 2, 3, 4, 5, 6} -- numbers may be in any order, but must include braces

11 = 1, 2, 3, 4, 5, 6 -- numbers may be in any order with braces omitted

20 = {1, 2, 2, 3, 4, 5, 6} -- with or without braces

21 = 6; 7 -- with or without braces

22 = 2 -- with or without braces

23 = 21; 23 -- with or without braces

24 = Other Unacceptbale

39 = I Don't Know.

EXERCISE: RD04

Given A = {2,4,5} and B = {1,2,3,6}, what is A U B?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	4.[illegible]	0.1	0.1	-0.3	0.1	1.7#	-1.6#	2.5	-0.8*	3.0	0.3	-0.2	-2.3#	2.0	3.5	-0.3	-0.9	2.0	-1.7*	-1.4
STD ERR OF DP		0.9	0.8	0.7	0.8	0.6	0.5	1.2	0.3	2.3	2.0	0.8	0.5	1.8	3.0	0.9	1.3	2.1	0.9	1.1
STD ERR OF P	0.5	1.0	1.0	0.9	0.9	0.8	0.6	1.3	0.5	2.5	2.0	0.8	0.5	1.7	3.2	0.9	1.4	2.2	0.7	1.1
AGE: 13																				
DELTA-P	6.4	-0.0	1.6	-1.5	-0.2	2.1#	-2.3#	6.6#	-1.4#	5.0*	1.1	1.1	-2.5#	8.5*	0.3	-1.9*	0.4	3.7	-0.6	-2.2
STD ERR OF DP		1.6	1.6	1.4	1.5	0.6	0.7	2.0	0.4	2.0	2.4	1.0	0.6	3.7	2.8	0.8	1.9	2.2	1.8	2.2
STD ERR OF P	0.9	1.8	1.9	1.6	1.7	1.2	0.9	2.2	0.9	2.3	2.3	1.5	0.9	4.0	3.1	0.9	2.0	2.3	2.0	2.2
AGE: 17																				
DELTA-P	2.7	-0.2	-0.3	0.2	0.1	1.1#	-1.1#	5.2#	-0.8#	2.5	3.0#	0.1	-1.0#	2.5	1.0	-0.7	-1.3#	1.6	0.5	-0.8
STD ERR OF DP		0.5	0.5	0.7	0.7	0.4	0.4	1.6	0.3	2.1	1.2	0.7	0.4	1.8	1.2	0.5	0.5	2.2	1.1	1.3
STD ERR OF P	0.4	0.5	0.5	0.8	0.9	0.6	0.4	1.8	0.4	2.1	1.3	0.8	0.3	1.9	1.3	0.5	0.4	2.3	1.2	1.4
AGE: Ad																				
DELTA-P	2.9	-0.8	2.6	-0.9	-1.1	1.3	-1.2	-2.7#	0.3#	0.4	-2.3#	0.6	0.6	-2.6#	4.1	-0.2	0.8	0.1	-0.4	-0.4
STD ERR OF DP		1.3	1.6	0.8	0.8	0.8	0.7	0.7	0.1	0.6	0.7	0.8	1.0	0.7	4.1	0.7	0.9	1.7	1.7	1.1
STD ERR OF P	0.7	1.4	2.1	0.7	0.6	1.3	0.6	0.3	0.8	0.8	0.4	1.2	1.3	0.3	4.5	0.9	0.7	1.8	1.9	1.1
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	5.1	-1.6	0.2	-0.6	2.2	-0.4	0.4	-2.0	0.3	-4.3#	-2.1	-0.2	1.9*	2.5	-2.7	-2.3#	-0.4	3.5	0.8	3.7
STD ERR OF DP		1.1	1.1	1.0	1.4	0.5	0.5	1.[illegible]	0.3	0.9	1.3	0.8	0.8	3.6	1.7	0.9	1.7	2.6	1.9	2.1
P-VALUE	5.1	3.5	5.3	4.5	7.3	4.7	5.5	3.1	5.5	0.8	3.0	5.0	7.0	7.6	2.4	2.8	4.7	8.7	6.0	8.8
STD ERR OF P	0.7	1.2	1.2	1.2	1.7	0.7	0.9	1.1	0.8	0.8	1.4	1.0	1.1	3.8	1.7	0.8	1.7	2.8	2.0	2.4
AGE: 13																				
DELTA-P	42.8	-8.2*	-4.6	5.6	7.0*	-2.7#	2.9#	-28.9#	4.8#	-15.6#	-9.8*	0.8	9.7#	-16.8#	-0.8	0.4	-0.9	-8.2	2.7	12.7*
STD ERR OF DP		4.0	3.2	4.4	3.0	1.0	1.1	2.9	0.8	3.9	4.5	1.7	1.6	4.0	11.1	3.2	4.2	5.3	4.0	5.3
P-VALUE	42.8	34.6	38.2	48.4	49.8	40.2	45.7	13.9	47.6	27.2	33.0	43.6	52.5	26.0	42.0	43.2	41.9	34.6	45.5	55.5
STD ERR OF P	2.1	4.5	3.3	5.7	3.0	2.6	2.1	2.3	2.4	4.2	4.7	2.7	2.7	3.7	12.2	3.7	4.3	5.4	4.2	3.4
AGE: 17																				
DELTA-P	55.1	-6.4	-2.7	-0.5	7.6#	-0.5	0.5	-28.7#	4.5#	-22.5#	-20.3#	-2.8*	12.9#	-28.1#	-9.2	-2.4	5.3	4.7	4.1	17.9#
STD ERR OF DP		3.3	2.5	3.0	2.7	1.5	1.5	3.1	0.7	4.2	3.7	1.2	1.4	3.8	5.2	2.3	3.3	4.3	3.6	4.5
P-VALUE	55.1	48.7	52.4	54.6	62.6	54.6	55.5	26.3	59.6	32.5	34.7	52.3	68.0	26.9	45.9	52.7	60.3	59.8	59.1	73.0
STD ERR OF P	1.7	3.6	2.6	3.9	3.1	2.0	2.5	3.2	1.8	4.5	3.7	2.0	2.1	3.7	5.5	2.2	3.3	4.5	4.0	5.1
AGE: Ad																				
DELTA-P	5.3	-1.0	0.9	-0.1	0.1	1.7#	-1.6#	-1.8	0.2	-1.8*	-1.3	-1.2	4.9#	-2.2	1.2	-1.0	0.2	1.5	-0.4	2.9
STD ERR OF DP		1.0	1.2	0.9	1.2	0.7	0.6	1.2	0.2	0.7	1.1	0.8	1.3	1.2	1.7	0.7	1.8	2.0	1.6	1.9
P-VALUE	5.3	4.3	6.1	5.1	5.4	7.0	3.7	3.5	5.4	3.5	4.0	4.0	10.1	3.1	6.4	4.3	5.4	6.8	4.9	8.2
STD ERR OF P	0.6	1.0	1.5	0.9	1.4	1.0	0.7	1.3	0.6	0.8	1.2	0.9	1.7	1.3	1.7	0.8	2.0	2.1	1.7	2.2
RESPONSE: 13 AGE: 9 TEXT: {1,2,3,4,5,6}--numbers may be in any order, but must include braces																				
DELTA-P	3.1	-1.6*	-0.3	0.1	1.8	-0.4	0.3	-1.3	0.3	-3.2#	-2.0*	0.9	0.9	1.7	-3.0#	-1.5*	-0.4	3.5	0.1	2.6
STD ERR OF DP		0.8	0.8	0.9	1.4	0.4	0.4	0.8	0.2	0.6	0.9	0.6	0.7	3.8	0.6	0.7	1.8	2.0	1.1	2.0
STD ERR OF P	0.6	0.7	0.8	1.0	1.8	0.6	0.8	1.0	0.6	0.0	0.8	0.9	1.0	4.1	0.2	0.5	1.5	2.1	1.1	2.3
AGE: 13																				
DELTA-P	36.8	-7.5	-4.3	3.4	8.3#	-2.7#	2.9#	-29.8#	4.9#	-15.2#	-11.3#	-1.0	10.5#	-20.7#	-2.5	0.5	-0.4	-6.8	2.8	13.9#
STD ERR OF DP		5.4	3.2	4.7	3.0	0.9	1.0	2.4	0.8	4.0	4.2	1.5	1.5	3.5	11.5	3.2	5.3	5.0	4.3	5.3
STD ERR OF P	2.3	5.1	3.2	6.1	2.8	2.5	2.4	1.4	2.[illegible]	4.2	4.1	2.7	2.8	2.9	12.6	3.7	5.6	5.0	4.4	5.3
AGE: 17																				
DELTA-P	49.5	-6.7	-1.2	-1.5	7.7#	-1.1	1.1	-20.6#	4.3#	-23.8#	-23.8#	-3.8#	14.1#	-26.0#	-11.3*	-3.9	8.8#	7.1	0.8	19.4#
STD ERR OF DP		3.4	2.5	3.1	2.9	1.4	1.4	2.7	0.6	3.7	3.2	1.3	1.4	3.6	5.2	2.2	3.4	3.9	3.8	5.0
STD ERR OF P	1.8	3.6	2.4	3.9	3.5	1.9	2.6	2.5	1.8	3.9	3.0	2.1	2.2	3.3	5.5	2.0	3.4	4.0	4.4	5.6

EXERCISE: RD04

Given A = (2,4,5) and B = (1,2,3,6), what is A U B?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 10 AGE: Ad	TEXT: (1,2,3,4,5,6)--numbers may be in any order, but must include braces																			
DELTA-P	3.0	-0.3	-0.4	0.0	0.6	0.7	-0.7	-1.6*	0.1	-1.0	-2.0#	-0.5	3.3#	-2.0#	-0.4	-0.8	1.2	0.5	-0.5	3.0*
STD ERR OF DP		0.8	0.7	0.7	0.9	0.5	0.4	0.8	0.1	0.5	0.7	0.6	1.0	0.6	1.2	0.6	1.7	1.6	1.1	1.5
STD ERR OF P	0.4	0.9	0.7	0.8	1.1	0.7	0.5	0.8	0.5	0.6	0.7	0.7	1.3	0.6	1.1	0.7	1.8	1.6	1.0	1.6
RESPONSE: 11 AGE: 9	TEXT: 1,2,3,4,5,6--numbers may be in any order with braces omitted																			
DELTA-P	2.0	-0.0	0.5	-0.7	0.4	-0.0	0.0	-0.8	0.1	-1.2	-0.2	-1.0*	1.0	0.8	0.3	-0.9*	-0.0	-0.0	0.7	1.1
STD ERR OF DP		0.7	0.7	0.5	0.6	0.3	0.3	0.6	0.2	0.7	1.0	0.5	0.6	1.3	1.6	0.4	0.8	0.8	1.0	1.1
STD ERR OF P	0.4	0.9	0.9	0.5	0.6	0.5	0.5	0.6	0.4	0.8	1.1	0.4	0.8	1.4	1.7	0.4	0.9	0.8	1.1	1.3
AGE: 13																				
DELTA-P	6.0	-0.7	-0.3	2.2	-1.3	0.0	-0.0	1.0	-0.0	-0.4	1.5	1.8*	-0.8	3.9	1.7	-0.1	-0.5	-1.4	-0.1	-1.2
STD ERR OF DP		1.2	1.1	1.1	0.9	0.5	0.5	1.8	0.3	1.6	2.0	0.9	0.6	3.4	2.6	0.8	2.0	1.0	1.6	1.1
STD ERR OF P	0.6	1.4	1.3	1.3	0.9	0.8	0.8	1.9	0.7	1.7	2.2	1.2	0.8	3.5	2.8	1.0	2.2	0.9	1.7	1.1
AGE: 17																				
DELTA-P	5.6	0.3	-1.5	1.1	-0.2	0.7	-0.7	-0.1	0.2	1.2	3.5	0.6	-1.2*	-2.2*	2.2	1.5*	-3.5#	-2.4*	3.2*	-1.5
STD ERR OF DP		0.9	1.1	0.8	0.8	0.6	0.6	1.6	0.2	2.5	2.3	0.9	0.5	1.0	2.0	0.7	1.1	1.2	1.6	1.5
STD ERR OF P	0.5	0.9	1.3	1.0	1.0	0.8	0.7	1.7	0.6	2.6	2.4	1.0	0.7	1.0	2.1	0.8	1.2	1.2	1.7	1.7
AGE: Ad																				
DELTA-P	2.2	-0.7	1.2	-0.2	-0.5	1.0#	-0.9#	-0.1	0.1	-0.8	0.7	-0.8	1.6#	-0.2	1.6	-0.2	-1.0	1.0	0.1	-0.1
STD ERR OF DP		0.5	0.8	0.5	0.5	0.4	0.4	0.9	0.1	0.5	0.9	0.5	0.6	1.1	1.5	0.5	0.7	1.2	1.0	1.1
STD ERR OF P	0.4	0.5	1.0	0.6	0.6	0.7	0.4	1.1	0.4	0.6	1.1	0.5	0.8	1.2	[illegible]	0.6	0.7	1.3	1.0	1.2
RESPONSE: 20 AGE: 9	TEXT: (1,2,2,3,4,5,6) with or without braces																			
DELTA-P	2.6	0.1	0.9	-1.0	0.2	-0.4	0.4	-1.0	0.2	-1.0	-1.5	-0.5	0.8	-1.6*	-1.4*	1.0	-2.0#	2.0	-0.2	0.1
STD ERR OF DP		0.9	1.0	0.7	0.9	0.4	0.3	0.6	0.2	1.0	0.9	0.9	0.8	0.7	0.6	0.8	0.6	2.0	1.1	1.2
STD ERR OF P	0.5	1.0	1.2	0.7	1.0	0.6	0.6	0.7	0.5	0.9	0.8	0.8	1.0	0.6	0.4	1.0	0.4	2.2	1.1	1.2
AGE: 13																				
DELTA-P	2.4	-0.2	0.9	-0.6	-0.1	0.5	-0.5	-1.6#	0.1	0.3	0.9	0.2	0.0	0.5	-0.3	0.5	0.1	-1.3	0.1	-0.4
STD ERR OF DP		0.5	0.5	0.6	0.7	0.3	0.4	0.6	0.1	1.1	1.2	0.5	0.4	1.3	1.3	0.6	0.9	0.7	0.8	0.8
STD ERR OF P	0.3	0.6	0.6	0.7	0.8	0.5	0.4	0.5	0.4	1.1	1.2	0.6	0.6	1.3	1.3	0.7	1.0	0.7	0.9	0.9
AGE: 17																				
DELTA-P	1.0	-0.8#	0.0	0.5	0.0	0.2	-0.2	-0.6	0.1*	0.1	-0.4	0.5	-0.2	0.4	-0.7*	0.4	-0.4	-0.7*	0.9	-0.8#
STD ERR OF DF		0.2	0.4	0.4	0.3	0.3	0.3	0.3	0.1	0.6	0.4	0.5	0.3	0.7	0.3	0.3	0.4	0.3	0.8	0.3
STD ERR OF P	0.2	0.1	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.6	0.5	0.6	0.3	0.7	0.3	0.4	0.5	0.3	0.9	0.2
AGE: Ad																				
DELTA-P	1.9	-0.3	0.7	-0.1	-0.3	0.7*	-0.7*	-0.7	0.1	0.0	-0.8	0.2	0.3	-1.6#	1.1	-0.0	-0.1	-0.3	1.2	-0.3
STD ERR OF DP		0.5	0.8	0.5	0.5	0.3	0.3	0.7	0.1	0.7	0.6	0.5	0.6	0.4	1.2	0.4	0.7	0.6	1.8	0.8
STD ERR OF P	0.3	0.4	1.0	0.6	0.6	0.6	0.4	0.7	0.4	0.8	0.5	0.6	0.7	0.3	1.2	0.5	0.6	0.5	2.0	0.9
RESPONSE: 21 AGE: 9	TEXT: 6; 7 -- with or without braces																			
DELTA-P	1.5	-0.6	0.7	-0.5	0.5	-0.1	0.1	0.5	-0.2	-1.5#	-1.0	0.1	0.3	3.6	-1.2#	-0.6	-0.2	0.8	-0.7	0.7
STD ERR OF DP		0.5	0.5	0.5	0.8	0.3	0.3	1.0	0.2	0.3	0.5	0.5	0.4	2.5	0.4	0.4	0.6	1.3	0.7	1.0
STD ERR OF P	0.3	0.5	0.6	0.6	1.0	0.5	0.4	1.1	0.4	0.0	0.5	0.5	0.5	2.6	0.3	0.4	0.6	1.4	0.6	1.1
AGE: 13																				
DELTA-P	0.2	0.1	0.2	-0.1	-0.3*	-0.1	0.1	-0.3*	-0.0	1.0	-0.3*	-0.3*	-0.0	1.1	-0.3*	0.1	-0.3*	-0.3*	0.1	-0.3*
STD ERR OF DP		0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	1.1	0.1	0.1	0.1	1.2	0.1	0.2	0.1	0.1	0.3	0.1
STD ERR OF P	0.1	0.3	0.4	0.1	0.0	0.1	0.2	0.0	0.1	1.2	0.0	0.0	0.1	1.2	0.0	0.2	0.0	0.0	0.3	0.0

EXERCISE: RD04

Given A = {2,4,5} and B = {1,2,3,6}, what is A U B?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: 17 TEXT: 6; 7 -- with or without braces																				
DELTA-P	0.1	-0.1	0.0	0.1	-0.1	-0.1	0.1	-0.1	0.0	-0.1	-0.1	0.1	-0.0	-0.1	-0.1	0.1	-0.1	-0.1	0.1	-0.1
STD ERR OF DP		0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0
STD ERR OF P	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0
AGE: Ad																				
DELTA-P	0.2	0.4	-0.1	-0.2*	0.0	-0.1	0.1	-0.2*	-0.0	-0.1	0.4	-0.0	-0.1	-0.2*	0.3	-0.2*	-0.2*	0.6	-0.2*	0.7
STD ERR OF DP		0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.2	0.1	0.1	0.5	0.1	0.1	0.6	0.1	0.5
STD ERR OF P	0.1	0.4	0.1	0.0	0.3	0.1	0.2	0.0	0.1	0.2	0.4	0.2	0.1	0.0	0.5	0.0	0.0	0.6	0.0	0.6
RESPONSE: 22 AGE: 9 TEXT: 2 -- with or without braces																				
DELTA-P	1.4	-0.1	-0.5	0.8	-0.3	-0.3	0.3	-0.6	0.2	-1.4#	-0.9	0.2	0.6	-0.9	-0.2	-0.1	1.0	0.1	-0.9	0.6
STD ERR OF DP		0.5	0.6	0.7	0.6	0.3	0.3	0.4	0.1	0.4	0.5	0.6	0.6	0.5	0.8	0.5	1.3	1.0	0.4	1.0
STD ERR OF P	0.4	0.5	0.6	1.0	0.6	0.5	0.5	0.4	0.4	0.0	0.4	0.7	0.9	0.4	0.7	0.6	1.4	1.1	0.4	1.1
AGE: 13																				
DELTA-P	17.9	-2.8	-0.2	1.9	1.0	-0.8	0.9	-5.5#	1.1#	-4.1	-4.7	0.0	1.4	-6.6#	-2.4	0.0	-1.1	1.8	3.1	1.4
STD ERR OF DP		2.8	2.1	2.4	1.9	0.9	0.9	1.9	0.4	3.4	2.4	1.1	1.5	2.4	4.4	1.6	3.7	2.4	2.5	2.8
STD ERR OF P	1.3	3.4	2.3	2.9	1.9	1.3	1.9	2.0	1.5	4.1	2.6	1.8	1.8	2.0	5.2	2.2	3.8	2.4	2.7	2.9
AGE: 17																				
DELTA-P	15.3	0.3	2.9	0.1	-2.7	-0.6	0.6	1.9	-0.3	-2.8	-1.7	1.6	-0.7	2.5	-0.2	1.7	2.0	-1.0	-2.7	-4.5
STD ERR OF DP		1.8	1.9	1.4	1.5	0.9	0.9	1.8	0.3	2.3	2.1	1.1	0.8	1.8	2.4	1.5	2.1	2.5	2.0	2.6
STD ERR OF P	0.9	2.1	2.2	1.5	1.8	1.2	1.5	1.9	1.1	2.3	2.0	1.4	1.4	2.0	2.5	1.8	2.3	2.5	2.3	2.8
AGE: Ad																				
DELTA-P	3.0	-0.7	1.1	-0.8	0.5	0.7	-0.6	-1.2	0.2	-0.0	-1.2	-0.5	1.8	-0.5	-2.2*	-0.9	0.0	3.2	-0.4	2.6
STD ERR OF DP		0.8	0.8	0.7	0.9	0.6	0.5	1.0	0.2	0.9	0.9	0.6	1.1	1.3	0.9	0.5	1.0	1.7	1.2	2.0
STD ERR OF P	0.5	0.9	1.0	0.7	1.1	0.7	0.7	1.1	0.5	1.1	0.8	0.7	1.3	1.3	0.9	0.6	1.0	1.9	1.0	2.2
RESPONSE: 23 AGE: 9 TEXT: 21; 23 -- with or without braces																				
DELTA-P	10.5	2.9	-1.3	0.5	-2.2	1.0	-0.9	-0.8	0.3	2.1	-1.7	1.3	2.5*	-3.5*	0.2	0.9	1.4	-2.1	-1.1	0.7
STD ERR OF DP		1.5	1.4	1.3	1.8	0.8	0.8	1.3	0.3	3.7	2.7	1.3	1.1	1.7	2.4	1.3	2.3	2.6	1.5	2.1
STD ERR OF P	0.9	1.7	1.6	1.5	2.1	1.3	1.1	1.4	1.0	3.9	2.8	1.6	1.4	1.7	2.5	1.7	2.4	2.7	1.6	2.4
AGE: 13																				
DELTA-P	3.5	0.6	0.4	1.0	-2.1#	1.2#	-1.3#	2.7*	-0.4*	0.4	2.1	-0.6	-0.0	2.6	-0.1	0.1	0.9	0.7	-1.1	-1.8
STD ERR OF DP		1.2	0.9	1.0	0.7	0.5	0.5	1.1	0.2	1.4	1.7	0.6	0.5	3.1	1.6	0.7	1.8	2.0	0.9	1.0
STD ERR OF P	0.6	1.5	1.0	1.3	0.6	0.8	0.7	1.2	0.6	1.5	1.8	0.8	0.8	3.2	1.6	0.9	2.0	2.1	0.9	1.0
AGE: 17																				
DELTA-P	2.7	0.3	0.4	0.6	-1.3*	0.1	-0.1	2.1	-0.2	1.2	0.6	0.7	-0.7	3.0#	0.8	-0.0	-1.1	1.8	-2.1#	0.1
STD ERR OF DP		0.7	0.6	0.9	0.6	0.4	0.4	[illegible]	0.2	1.8	1.2	0.6	0.4	1.0	1.0	0.6	0.7	1.4	0.6	1.2
STD ERR OF P	0.4	0.7	0.5	1.2	0.6	0.5	0.6	1.5	0.4	1.9	1.3	0.7	0.6	1.1	1.0	0.7	0.7	1.6	0.6	1.4
AGE: Ad																				
DELTA-P	8.3	3.9*	-1.2	-1.9	0.2	-0.8	0.8	1.4	-0.3	0.2	1.8	0.1	-1.1	1.6	5.1	-1.2	3.1	1.0	-3.1*	-1.2
STD ERR OF DP		1.8	1.2	1.2	1.3	0.8	0.7	2.8	0.4	1.2	1.5	0.9	1.2	2.8	2.6	0.8	2.7	2.9	1.5	2.2
STD ERR OF P	0.8	2.1	1.2	1.5	1.5	1.1	1.0	2.9	0.8	1.6	1.7	1.1	1.4	2.9	2.7	0.9	3.1	3.0	1.5	2.4
RESPONSE: 24 AGE: 9 * TEXT: Other Unacceptable																				
DELTA-P	19.2	4.8*	-1.4	-2.0	-0.9	3.0#	-2.9#	10.0#	-1.9#	7.2*	11.4*	1.8	0.1	8.0	8.0*	-0.3	-4.9#	2.0	-2.0	-2.8
STD ERR OF DP		2.0	1.4	1.5	1.8	1.0	1.0	2.6	0.6	3.6	5.5	1.8	1.3	4.3	3.5	1.2	1.9	2.7	2.3	2.2
STD ERR OF P	1.0	2.4	1.4	1.8	2.1	1.6	1.2	2.9	1.0	3.9	6.0	2.0	1.7	4.4	3.8	1.6	2.0	2.8	2.3	2.3

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                       NATION |              REGION             |      SEX       |     RACE       |      PARENTAL EDUCATION        |              SIZE-AND-TYPE OF COMMUNITY
                              | SOUTH                    NORTH  |                |                |          SOME    GRAD    POST  |  LOW  EXTREME  SMALL  MEDIUM   MAIN   URBAN   HIGH
                     _________|  EAST   WEST CENTRAL     EAST   |  MALE  FEMALE  | BLACK   WHITE  | NO HS     HS      HS      HS  | METRO  RURAL  PLACES  CITY  BIG CTY FRINGE METRO

EXERCISE: RD04

Given A = (2,4,5) and B = (1,2,3,6), what is A U B?


RESPONSE:  24    AGE: 13       TEXT:  Other Unacceptable

    DELTA-P              14.6    6.30    0.8   -4.90   -1.8     0.1   -0.1    16.10  -2.60    11.60    4.3     1.2   -6.00    6.0    2.9   -0.1   -1.0    0.8   -1.6   -3.1
    STD ERR OF DP                1.5     1.5    1.2     1.2     0.8    0.9     3.2    0.6      3.7     4.2     1.4    0.9     4.3    4.4    1.8    2.4    2.0    2.1    1.8
    STD ERR OF P          0.8    1.7     1.9    1.2     1.4     1.1    1.2     3.2    0.8      3.9     4.3     1.6    1.1     4.4    4.4    2.0    2.5    3.1    2.2    1.9

                  AGE: 17

    DELTA-P               7.0    1.4     0.4   -1.5     0.3     0.7   -0.7     7.00  -1.20     4.1*    2.9    -0.1   -1.00    6.2*   0.7    0.4   -0.6   -1.4   -1.8   -2.0
    STD ERR OF DP                0.9     1.0    0.9     1.0     0.7    0.7     1.6    0.3      2.1     1.7     0.8    0.6     2.6    1.7    0.9    1.3    1.9    1.1    1.6
    STD ERR OF P          0.6    0.9     1.1    1.1     1.3     1.0    0.7     1.8    0.6      2.1     1.7     1.0    0.9     2.7    1.8    1.0    1.4    2.0    1.2    1.8

                  AGE: A4

    DELTA-P              10.1    1.6    -0.4    0.2    -1.2     1.4   -1.3     6.7*  -0.7     -0.5    -0.2    -0.7    1.9     6.9   -2.7   -0.4    1.5   -3.7   -0.5   -0.4
    STD ERR OF DP                2.2     1.7    1.4     1.5     0.7    0.7     3.2    0.4      1.4     1.6     1.0    1.1     4.1    2.2    1.0    3.2    2.2    2.5    2.0
    STD ERR OF P          1.0    2.7     2.0    1.6     1.5     1.2    1.2     3.6    1.0      1.9     2.0     1.2    1.4     4.4    2.2    1.2    3.5    2.2    2.7    2.2

RESPONSE:  39    AGE:  9       TEXT:  I Don't Know.

    DELTA-P              55.1   -5.5*    1.3    3.1     0.4    -4.50   4.20   -8.50   1.9*    -4.1    -4.4    -2.7   -3.8   -10.1   -6.2    1.7    6.1   -8.3    5.7   -1.5
    STD ERR OF DP                2.4     2.3    2.9     3.7     1.4    1.3     3.4    0.8      4.4     5.5     1.9    2.0     6.8    4.3    2.6    4.0    6.7    4.3    4.7
    STD ERR OF P          1.7    2.3     2.1    3.7     4.6     2.3    2.1     3.4    2.0      4.8     6.0     2.2    2.6     6.4    4.4    3.0    4.0    7.3    4.5    5.3

                  AGE: 13

    DELTA-P              12.2    4.2     0.9   -1.5    -3.6*   -0.2    0.3    10.80  -1.60     1.5     6.4*   -2.0*  -2.60    4.7    0.7    0.9    1.9    2.8   -2.7   -6.50
    STD ERR OF DP                2.8     2.1    1.9     1.5     0.7    0.8     2.2    0.4      2.2     2.7     1.0    0.9     4.0    4.7    1.2    2.7    2.9    2.6    1.8
    STD ERR OF P          1.2    3.5     2.4    2.1     1.2     1.4    1.4     2.6    1.3      2.7     3.1     1.5    1.1     4.1    5.4    1.6    2.8    3.0    2.7    1.6

                  AGE: 17

    DELTA-P              16.2    5.4*   -0.8    0.5    -3.90   -0.9    0.9    13.20  -2.10    17.50   15.90    -0.2   -7.70   13.80   7.7    0.6   -3.7   -4.9    1.0   -9.90
    STD ERR OF DP                2.2     1.5    1.5     1.6     0.9    0.9     2.9    0.5      4.0     3.3     1.1    1.0     3.8    4.0    1.6    2.8    2.6    2.3    2.4
    STD ERR OF P          1.0    2.6     1.6    1.8     1.8     1.2    1.5     3.2    1.0      4.2     3.6     1.5    1.1     4.0    4.2    1.8    2.0    2.7    2.5    2.5

                  AGE: A4

    DELTA-P              68.3   -3.1    -3.5    3.90    1.8    -4.80   4.50   -1.5    0.1      1.7     3.6     1.5   -8.20   -1.4   -6.8    3.90  -5.3   -2.3    3.8   -3.9
    STD ERR OF DP                2.4     2.3    1.5     2.2     1.4    1.4     3.7    0.5      2.0     2.4     1.4    2.2     5.0    5.0    1.6    3.5    3.5    2.8    3.5
    STD ERR OF P          1.2    2.7     2.9    1.4     2.5     1.9    1.8     3.8    1.3      2.6     2.4     1.4    2.9     5.1    5.4    2.1    3.6    3.6    2.7    3.7
```

RE01
OBJ I

An angle may be measured in units called

○ centimeters.

● degrees.

○ grams.

○ inches.

○ I don't know.

Report #: RE01

NAEP #: E10002-1234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		9	13	17	Adult
Age:		9	13	17	Adult
Package-Exercise:		06-14	06-15	03-12	05-17
National P-value:					
	RE01	14.65	68.71	89.07	81.87
Timing: (in seconds)					
	Stimulus:	8	8	7	10
	Response:	22	22	22	*
	I don't know:	5	5	5	*
	Pause:	6	6	6	*
RE01	Exercise total:	41	41	40	*

*Time not limited by paced tape.

EXERCISE: RE01

An angle may be measured in units called

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.2	-0.2	-0.2*	-0.0	0.4	0.1	-0.1	-0.2	0.1	0.9	-0.2*	-0.2*	-0.2	-0.2*	-0.2*	-0.2*	0.7	-0.2*	-0.2*	0.6
STD ERR OF DP		0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.5
STD ERR OF P	0.1	0.0	0.0	0.2	0.4	0.2	0.1	0.1	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6
AGE: 13																				
DELTA-P	0.1	-0.1	0.1	-0.0	0.0	0.1	-0.1	0.3	-0.0	-0.1	0.0	-0.1	0.0	0.5	-0.1	-0.1	-0.1	0.7	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.5	0.1	0.1
STD ERR OF P	0.1	0.0	0.2	0.1	0.2	0.1	0.1	0.3	0.1	0.0	0.2	0.0	0.1	0.6	0.0	0.0	0.0	0.5	0.0	0.0
AGE: 17																				
DELTA-P	0.1	0.0	0.0	0.1	-0.1	0.1	-0.1	0.2	-0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.1	-0.1	0.1	-0.1	0.2	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
STD ERR OF P	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.2	0.0	0.2	0.0
AGE: Ad																				
DELTA-P	0.2	0.6	-0.2	-0.2	0.0	-0.2	0.2	2.1	-0.2	0.7	-0.2	-0.2	-0.2	-0.2	-0.2	0.2	-0.2	0.5	-0.2	-0.2
STD ERR OF DP		0.7	0.2	0.2	0.3	0.2	0.2	1.5	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.7	0.2	0.2
STD ERR OF P	0.2	0.8	0.0	0.0	0.2	0.0	0.4	1.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	0.0	0.0
RESPONSE: 01 AGE: 9 TEXT: centimeters.																				
DELTA-P	18.5	1.6	-2.4	0.4	-0.0	-0.8	0.9	-0.7	0.5	-3.7	1.3	0.4	-0.2	-3.6	5.4	-0.4	-1.2	-4.3	-0.6	5.5
STD ERR OF DP		2.1	1.8	1.8	2.7	0.9	0.9	1.9	0.5	3.1	3.4	1.9	2.0	2.5	4.3	2.0	1.5	3.1	3.0	3.7
STD ERR OF P	1.3	2.3	1.8	2.0	3.4	1.3	1.8	2.2	1.4	3.1	3.8	2.4	2.3	2.2	4.8	2.5	1.6	3.2	3.0	4.0
AGE: 13																				
DELTA-P	10.4	2.9	1.4	-1.0	-3.0#	-3.3#	3.0#	7.2#	-1.5#	3.3	8.3#	-1.5	-2.8#	2.9	0.9	1.6	1.5	-0.7	-3.3	-4.2#
STD ERR OF DP		1.5	1.8	1.3	1.2	0.8	0.7	2.1	0.4	4.4	2.8	1.2	0.9	2.0	3.5	1.2	2.1	2.5	2.1	1.5
STD ERR OF P	0.8	1.6	2.2	1.6	1.1	1.1	1.2	2.2	0.9	4.6	2.9	1.3	1.2	1.9	3.7	1.7	2.3	2.5	2.1	1.3
AGE: 17																				
DELTA-P	5.2	2.2*	1.4	-0.5	-2.4#	-1.8#	1.7#	13.3#	-2.5#	7.5#	0.2	0.3	-2.7#	6.5	4.6	-1.1	-1.6	1.5	-0.9	-3.8#
STD ERR OF DP		1.0	1.1	0.9	0.8	0.6	0.5	2.5	0.5	2.6	1.5	0.8	0.6	3.3	2.3	0.7	1.0	2.7	0.9	1.0
STD ERR OF P	0.6	1.1	1.2	1.2	0.8	0.7	0.9	2.8	0.4	2.8	1.5	1.0	0.5	3.5	2.5	0.5	0.8	2.8	0.9	1.1
AGE: Ad																				
DELTA-P	4.3	1.8	-0.5	-1.4	0.6	-1.4#	1.3#	6.5*	-0.8*	0.7	4.5#	-1.0	-2.2#	0.8	-0.5	0.1	-0.4	3.5	-1.5	-1.1
STD ERR OF DP		1.3	0.9	0.8	1.0	0.5	0.5	2.9	0.4	0.8	1.7	0.7	0.8	1.6	2.3	0.6	1.3	2.7	1.1	1.1
STD ERR OF P	0.6	1.6	1.0	0.8	1.2	0.5	0.9	3.2	0.5	1.0	2.0	0.8	0.9	1.6	2.5	0.8	1.3	2.8	1.2	1.2
RESPONSE: 02* AGE: 9 TEXT: degrees.																				
DELTA-P	14.7	2.1	-1.9	1.3	-1.9	4.6#	-4.7#	-3.8*	0.6	-1.1	-0.5	0.4	5.2#	-4.4	1.1	-0.3	5.4#	1.3	-1.3	-3.2
STD ERR OF DP		1.6	1.7	1.5	2.0	0.9	0.9	1.7	0.5	2.6	3.6	1.5	1.3	2.7	3.8	1.7	2.0	2.5	2.7	2.5
P-VALUE	14.7	16.8	12.8	16.0	12.8	19.2	9.9	10.9	15.2	13.6	14.1	15.1	19.9	10.2	15.7	14.3	20.0	15.9	13.3	11.5
STD ERR OF P	1.0	1.7	1.8	1.6	2.6	1.5	1.2	1.6	1.2	2.8	3.6	1.8	1.8	2.7	4.0	2.3	2.2	2.6	2.7	2.4
AGE: 13																				
DELTA-P	68.7	-8.6#	-5.4	2.2	11.0#	7.1#	-6.6#	-33.7#	5.7#	-10.7	-15.9#	0.6	12.0#	-18.6*	-6.5	-1.8	-2.2	-0.8	5.2	17.7#
STD ERR OF DP		3.3	3.1	4.0	2.5	1.2	1.2	3.6	0.8	5.9	4.0	1.8	1.6	7.6	11.0	2.4	5.0	5.4	3.6	2.8
P-VALUE	68.7	60.1	63.4	70.9	79.7	75.8	62.1	35.0	74.5	58.0	52.9	69.3	80.7	50.2	62.2	66.9	66.5	68.0	73.9	86.4
STD ERR OF P	2.0	3.3	3.4	5.4	2.2	1.9	2.7	3.8	2.0	6.7	4.1	2.5	1.8	7.5	12.1	2.7	5.6	5.4	3.6	2.3
AGE: 17																				
DELTA-P	89.1	-3.1*	-1.6	0.2	3.6#	3.1#	-3.0#	-22.5#	4.4#	-17.5#	-3.0	0.5	6.4#	-9.9#	-7.4*	2.1	0.6	-3.8	3.2*	5.7#
STD ERR OF DP		1.5	1.7	1.5	1.1	0.6	0.6	3.1	0.7	2.9	1.8	1.1	0.7	2.7	3.4	1.1	1.7	4.4	[illegible]	1.7
P-VALUE	89.1	86.0	87.5	89.3	92.7	92.1	86.1	66.6	93.4	71.5	86.0	89.6	95.5	79.2	81.6	91.2	89.6	85.3	92.3	94.8
STD ERR OF P	0.8	1.6	1.9	1.9	1.1	0.9	1.2	3.4	0.6	3.0	1.8	1.2	0.7	2.8	3.7	1.1	1.5	4.6	1.6	1.7

EXERCISE: RE01

An angle may be measured in units called

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 02* AGE: Ad	TEXT: degrees.																			
DELTA-P	81.5	-8.7#	1.7	6.2#	-1.2	6.3#	-5.9#	-24.5#	4.5#	-14.3#	-6.4#	8.2#	11.6#	-14.8#	-1.3	-0.1	-1.3	3.6	2.1	8.5#
STD ERR OF DP		1.9	2.4	1.7	2.0	1.0	1.0	4.1	0.9	1.8	2.5	1.3	1.5	3.5	2.9	1.4	3.6	4.0	2.6	2.5
P-VALUE	81.5	72.8	83.2	87.7	80.3	87.8	75.6	57.0	86.0	67.2	75.0	89.7	93.1	66.6	80.2	81.4	80.2	85.1	83.5	89.9
STD ERR OF P	1.2	1.9	3.0	1.8	2.4	1.6	1.5	4.4	1.0	2.3	2.9	1.2	1.6	3.7	2.9	1.8	3.9	4.4	2.5	2.6
RESPONSE: 03 AGE: 9	TEXT: grams.																			
DELTA-P	9.8	-1.4	1.5	-0.1	0.2	-0.7	0.8	-0.6	-0.0	-2.5	-1.1	1.5	0.1	-1.5	-0.6	1.8	-1.2	-0.4	0.6	-1.7
STD ERR OF DP		1.1	1.2	1.0	1.2	0.7	0.7	1.5	0.3	2.1	2.5	1.0	1.1	1.6	2.3	1.1	1.8	2.4	1.7	1.8
STD ERR OF P	0.7	1.3	1.3	1.2	1.4	0.9	1.0	1.7	0.7	2.1	2.6	1.2	1.3	1.7	2.3	1.3	1.8	2.6	1.8	1.8
AGE: 13																				
DELTA-P	2.6	0.7	1.2	-0.8	-1.1	-0.5	0.5	4.8#	-0.8#	0.2	0.2	0.3	-1.3#	4.7#	0.3	-0.4	0.7	1.1	-1.0	-2.2#
STD ERR OF DP		0.7	0.6	0.4	0.6	0.4	0.3	1.4	0.2	1.1	1.0	0.5	0.4	1.8	1.2	0.6	0.9	1.3	0.7	0.4
STD ERR OF P	0.3	0.8	0.7	0.4	0.7	0.4	0.6	1.6	0.3	1.2	1.1	0.7	0.4	1.9	1.2	0.7	1.0	1.3	0.7	0.4
AGE: 17																				
DELTA-P	0.9	0.4	0.4	-0.2	-0.4	-0.3	0.3	1.2*	-0.2*	1.2	0.5	-0.1	-0.4*	0.6	1.0	-0.1	1.1	-0.9#	-0.7#	-0.5
STD ERR OF DP		0.3	0.5	0.2	0.3	0.2	0.2	0.5	0.1	0.7	0.6	0.3	0.2	0.7	0.7	0.2	0.8	0.2	0.2	0.3
STD ERR OF P	0.2	0.3	0.6	0.3	0.3	0.2	0.3	0.6	0.2	0.8	0.6	0.3	0.2	0.8	0.8	0.2	0.9	0.0	0.2	0.3
AGE: Ad																				
DELTA-P	1.3	-0.3	-0.7	0.9	-0.0	0.1	-0.1	2.1	-0.4	0.3	1.8	-0.8	-0.3	2.2	-0.2	-0.1	-0.8	-0.9#	-0.1	0.3
STD ERR OF DP		0.6	0.5	0.8	0.6	0.4	0.4	1.4	0.2	0.6	1.4	0.5	0.7	1.6	0.7	0.4	0.7	0.4	0.9	1.4
STD ERR OF P	0.4	0.5	0.4	1.1	0.7	0.6	0.5	1.5	0.4	0.7	1.5	0.4	0.9	1.8	0.7	0.5	0.6	0.4	0.9	1.6
RESPONSE: 04 AGE: 9	TEXT: inches.																			
DELTA-P	42.7	-0.3	2.6	-2.3	0.7	-1.1	1.1	5.0	-1.4*	4.7	1.3	1.2	-2.0	5.3	-0.8	-1.9	-1.1	4.4	1.2	-2.8
STD ERR OF DP		3.0	2.7	2.7	2.8	0.9	1.0	2.8	0.7	4.7	5.4	2.5	1.8	4.7	5.3	2.4	3.5	3.9	2.9	4.3
STD ERR OF P	1.7	3.6	2.8	3.3	3.3	1.7	2.1	3.1	1.8	4.9	6.0	3.0	2.2	4.5	6.0	3.2	3.9	4.1	2.8	4.4
AGE: 13																				
DELTA-P	15.4	4.4	3.2*	-1.0	-6.2#	-2.8#	2.6#	19.8#	-3.2#	4.4	5.7*	1.2	-7.1#	10.2	3.5	1.8	-1.5	0.4	-2.2	-9.4#
STD ERR OF DP		2.2	1.6	2.2	1.6	1.0	1.0	2.7	0.5	3.6	2.6	1.2	1.0	5.4	5.2	1.8	2.7	3.4	2.4	1.7
STD ERR OF P	1.1	2.5	1.5	2.9	1.6	1.2	1.7	2.8	1.1	3.7	2.7	1.9	0.9	5.5	5.8	1.7	3.0	3.5	2.5	1.5
AGE: 17																				
DELTA-P	3.6	0.5	-0.1	0.3	-0.6	-0.6	0.6	7.3#	-1.5#	6.1#	3.0*	-0.5	-2.4#	2.9	1.6	-0.6	-0.2	3.2	-1.5*	-2.0
STD ERR OF DP		0.8	1.1	0.6	0.7	0.5	0.5	1.7	0.3	1.6	1.4	0.6	0.3	2.0	1.0	0.5	1.0	2.1	0.7	1.2
STD ERR OF P	0.4	0.8	1.4	0.7	0.7	0.5	0.7	1.9	0.3	1.7	1.5	0.6	0.3	2.1	1.2	0.7	1.0	2.1	0.8	1.2
AGE: Ad																				
DELTA-P	7.0	5.4#	-0.6	-3.2#	-0.8	-1.7*	1.6*	11.2#	-2.1#	7.2#	1.8	-3.9#	-5.2#	6.2*	2.4	-0.2	1.6	-2.1	-1.0	-4.6#
STD ERR OF DP		1.4	1.4	1.0	1.3	0.8	0.8	3.1	0.5	1.2	1.5	0.8	0.8	2.7	1.5	0.9	2.9	1.8	1.7	1.1
STD ERR OF P	0.7	1.4	1.8	1.1	1.5	1.1	1.1	3.5	0.6	1.7	1.8	0.7	0.6	2.9	1.4	1.2	3.2	2.0	1.7	1.1
RESPONSE: 09 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	14.1	-1.9	0.4	0.7	0.7	-2.1#	2.2#	0.3	0.3	1.8	-0.7	-3.3*	-2.9*	4.4	-4.8#	1.0	-2.7	-0.7	0.4	1.6
STD ERR OF DP		1.3	1.5	1.3	1.2	0.8	0.8	1.7	0.4	2.9	3.9	1.3	1.2	2.4	1.5	1.6	1.5	2.2	1.9	2.6
STD ERR OF P	0.8	1.5	1.6	1.6	1.3	1.1	1.1	1.7	1.0	3.2	4.0	1.6	1.3	2.5	1.2	2.0	1.6	2.3	1.9	2.7
AGE: 13																				
DELTA-P	2.8	0.7	-0.5	0.5	-0.8	-0.6	0.6	2.0	-0.2	3.0	1.6	-0.5	-0.8	0.4	2.0	-1.0	1.7	-0.7	1.4	-1.9#
STD ERR OF DP		0.8	0.7	1.2	0.7	0.4	0.4	1.6	0.3	2.1	1.6	0.4	0.6	1.2	4.2	0.7	1.4	1.1	1.2	0.7
STD ERR OF P	0.5	0.8	0.6	1.6	0.6	0.5	0.8	1.7	0.6	2.2	1.7	0.6	0.4	1.2	4.6	0.4	1.5	1.0	1.2	0.5

EXERCISE: RE01

An angle may be measured in units called

RESPONSE: 09 AGE: 17 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	1.2	-0.0	-0.2	0.2	-0.0	-0.5	0.4	0.5	-0.1	2.9*	-0.6	-0.3	-0.8#	-0.0	0.2	-0.2	0.0	0.1	-0.2	0.7
STD ERR OF DP		0.5	0.4	0.5	0.5	0.3	0.3	0.8	0.1	1.4	0.4	0.3	0.3	0.8	1.0	0.4	0.5	0.9	0.6	0.9
STD ERR OF P	0.3	0.5	0.3	0.6	0.6	0.3	0.5	0.8	0.3	1.5	0.3	0.4	0.2	0.8	1.1	0.5	0.5	0.9	0.6	1.0

AGE: AD

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	5.6	0.8	0.4	-2.2#	1.4	-3.0#	2.8#	2.7	-1.0*	5.4#	-1.4	-2.2#	-3.7#	3.9#	-0.3	0.1	1.0	-4.6#	0.7	-2.9*
STD ERR OF DP		1.1	1.3	0.8	0.9	0.7	0.6	2.1	0.4	1.3	1.1	0.8	0.8	2.2	2.3	0.9	1.9	0.8	2.1	1.3
STD ERR OF P	0.6	1.2	1.6	0.8	1.0	0.6	1.1	2.1	0.5	1.7	1.3	0.8	0.7	2.5	2.4	1.0	1.9	0.8	2.3	1.2

EE02
OBJ IV

Sally worked from 4:25 p.m. to 5:00 p.m. How many minutes did she work?

ANSWER ____________________

Report #: EE02

NAEP #: E11005-1

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		02-18
National P-value:		
	EE02	25.08

Timing: (in seconds)

	Stimulus:	7
	Response:	30
EE02	Exercise total:	37

SCORING GUIDE
EE02
E11005-1

00 = No Response

10 = 35; 35 minutes

20 = 1 hour 35 minutes; 95 minutes; 95; 1:35

21 = 1 hour 25 minutes; 85 minutes; 85; 1:25

22 = 25; 25 units

23 = 75; 75 units

24 = 125; 125 units

25 = 9:25; 9:25 units; 925

26 = Other Unacceptable; e.g., 135

39 = I Don't Know.

EXERCISE: RE02

Sally worked from 4:25 p.m. to 5:00 p.m. How many minutes did she work?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	2.1	1.3*	-0.2	-0.2	-0.8*	0.4	-0.4	2.3	-0.4	0.6	0.4	-0.2	-0.9*	3.0#	-0.2	-0.2	0.0	0.9	-0.2	-1.9#
STD ERR OF DP		0.6	0.5	0.5	0.4	0.3	0.3	1.2	0.2	1.1	1.8	0.5	0.4	1.2	1.0	0.5	0.7	1.8	0.7	0.3
STD ERR OF P	0.3	0.7	0.6	0.6	0.5	0.5	0.4	1.4	0.3	1.1	1.8	0.6	0.4	1.3	1.0	0.6	0.7	1.9	0.9	0.2
RESPONSE: 10* AGE: 9	TEXT: 35; 35 minutes																			
DELTA-P	25.1	-5.7#	1.8	0.5	3.2	3.9#	-3.8#	-15.3#	2.6#	-12.0#	-3.9	0.7	5.8#	-8.9#	-7.9*	1.2	-0.9	2.3	-2.2	13.3#
STD ERR OF DP		2.2	2.7	2.0	3.1	1.1	1.1	1.8	0.6	4.1	4.0	2.1	1.7	3.3	3.2	1.9	3.5	3.4	1.8	3.6
P-VALUE	25.1	19.4	26.9	25.6	28.3	29.0	21.3	9.8	27.7	13.1	21.2	25.8	30.9	16.2	17.2	26.3	24.2	27.3	22.8	38.4
STD ERR OF P	1.5	2.1	3.0	1.9	4.1	2.0	1.7	1.5	1.7	4.0	4.7	2.9	2.1	3.6	3.8	2.3	3.7	3.5	2.2	4.5
RESPONSE: 20 AGE: 9	TEXT: 1 hour 35 minutes; 95 minutes; 95; 1:35																			
DELTA-P	0.4	0.1	-0.1	0.3	-0.4*	-0.1	0.1	0.1	0.0	-0.4*	-0.4*	0.2	0.2	0.1	-0.4*	-0.1	0.1	-0.4*	0.6	-0.1
STD ERR OF DP		0.2	0.2	0.4	0.2	0.2	0.2	0.3	0.1	0.2	0.2	0.4	0.2	0.5	0.2	0.3	0.4	0.2	0.8	0.3
STD ERR OF P	0.2	0.2	0.2	0.5	0.0	0.2	0.3	0.4	0.2	0.0	0.0	0.4	0.3	0.5	0.0	0.2	0.3	0.0	0.9	0.3
RESPONSE: 21 AGE: 9	TEXT: 1 hour 25 minutes; 85 minutes; 85; 1:25																			
DELTA-P	2.6	-0.2	-0.0	1.0	-0.7	-0.3	0.3	-1.2*	0.2	-0.8	0.6	0.9	-0.1	-1.1	-0.5	-0.1	1.3	-0.7	1.7	-1.2
STD ERR OF DP		0.6	0.6	0.8	0.6	0.3	0.3	0.6	0.1	1.4	1.6	0.6	0.6	0.8	0.7	0.7	1.1	1.0	1.4	0.9
STD ERR OF P	0.4	0.7	0.6	1.0	0.6	0.5	0.5	0.7	0.4	1.3	1.6	0.8	0.6	0.8	0.6	0.8	1.2	0.9	1.5	0.9
RESPONSE: 22 AGE: 9	TEXT: 25; 25 units																			
DELTA-P	5.4	0.7	1.1	-0.5	-1.0	-0.5	0.5	-1.2	0.0	-2.0	0.2	0.6	-0.1	-0.6	1.8	-1.1	4.3*	-1.8	-1.0	-0.5
STD ERR OF DP		1.0	0.8	1.0	1.2	0.6	0.6	1.2	0.3	2.0	2.7	0.9	0.6	1.4	1.7	0.8	2.1	1.5	1.3	1.3
STD ERR OF P	0.6	1.1	0.8	1.2	1.5	0.9	0.8	1.3	0.7	1.7	2.7	1.2	0.8	1.5	1.7	1.0	2.2	1.6	1.4	1.5
RESPONSE: 23 AGE: 9	TEXT: 75; 75 units																			
DELTA-P	6.8	-1.6	-2.1	-0.1	3.2*	-0.3	0.3	-4.5#	1.1#	-0.4	1.4	-0.1	1.7	-4.7#	-1.3	1.3	-2.5	-1.6	1.3	3.5*
STD ERR OF DP		1.1	1.2	1.5	1.6	0.7	0.7	1.1	0.3	3.1	2.4	1.0	1.1	1.2	2.1	1.3	1.7	2.1	2.0	1.7
STD ERR OF P	0.8	1.0	1.1	1.8	2.1	1.0	1.2	0.7	1.0	3.0	2.3	1.0	1.6	0.8	2.4	1.8	1.8	2.0	2.0	1.6
RESPONSE: 24 AGE: 9	TEXT: 125; 125 units																			
DELTA-P	1.3	-0.8	0.3	0.4	0.0	0.5	-0.5	-0.8	0.2	-0.2	-1.3#	0.2	-0.4	-0.4	1.1	0.6	-0.5	-1.3#	-0.9	0.0
STD ERR OF DP		0.4	0.6	0.6	0.7	0.4	0.3	0.6	0.1	0.8	0.4	0.5	0.4	0.8	1.3	0.6	0.6	0.4	0.5	0.7
STD ERR OF P	0.4	0.3	0.6	0.8	0.9	0.7	0.3	0.5	0.4	0.8	0.0	0.7	0.3	0.8	1.4	0.9	0.5	0.0	0.4	0.7
RESPONSE: 25 AGE: 9	TEXT: 9:25; 9:25 units; 925																			
DELTA-P	12.4	0.3	-2.5	0.1	1.7	-3.2#	3.1#	0.6	0.0	6.1	-1.4	-0.5	-2.7*	-1.3	-0.3	0.1	-2.8	1.4	1.2	1.6
STD ERR OF DP		1.6	1.6	1.8	1.4	0.8	0.8	2.2	0.4	4.7	3.1	1.3	1.3	2.0	2.2	1.1	2.1	4.6	3.0	2.6
STD ERR OF P	0.9	1.8	1.8	2.2	1.6	1.0	1.4	2.4	1.0	5.1	3.2	1.4	1.5	1.9	2.5	1.3	2.2	4.9	3.4	2.7
RESPONSE: 26 AGE: 9	TEXT: Other Unacceptable; e.g., 135																			
DELTA-P	35.1	6.4#	-0.4	-0.9	-4.5*	1.6	-1.5	21.0#	-4.1#	7.5	6.8	-1.6	-0.7	12.9#	4.8	-0.5	-0.1	4.5	-3.2	-12.1#
STD ERR OF DP		2.2	2.5	1.6	1.8	1.1	1.0	2.1	0.6	4.3	5.1	2.1	1.9	3.5	2.9	1.5	2.9	5.8	3.6	2.6
STD ERR OF P	1.2	2.5	3.0	1.6	2.2	1.7	1.5	2.2	1.2	4.4	5.1	2.5	2.2	3.6	3.0	1.7	3.0	5.9	4.0	2.8
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	8.8	-0.4	2.1	-0.6	-0.7	-2.0#	2.0#	-1.0	0.3	1.6	-2.5	-0.2	-2.8#	0.9	2.8	-1.0	1.2	-4.2#	2.7	-2.7
STD ERR OF DP		1.3	1.6	1.2	1.4	0.7	0.6	1.4	0.4	4.4	2.4	1.3	1.0	2.2	2.9	1.2	2.0	1.6	1.8	1.8
STD ERR OF P	0.8	1.4	1.9	1.3	1.6	0.9	1.1	1.4	0.9	4.8	2.5	1.7	1.0	2.4	3.2	1.3	2.2	1.5	2.0	1.9

RE03
OBJ IV

A worker went to his job at 7:45 a.m. and returned home exactly 10 hours later. At what time did he reach home?

ANSWER ______________________

SCORING GUIDE
RE03
E11011-234

00 = No Response

10 = Correct time with designation for p.m.:
5:45 P.m.; 17:45; quarter to six p.m.;
45 minutes after 5 in the afternoon

11 = Correct time but no designation for p.m.:
5:45; 45 minutes after 5; 15 until 6

12 = 5:45 a.m.; 545

20 = 7:55; 7:55 p.m.; 755

21 = 4:45; 4:45 p.m.; 445; 4:45 a.m.

22 = Other Unacceptable

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

Report #: RE03

NAEP #: E11011-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		09-20	10-20	02-14
National P-value:				
	RE03	62.61	82.36	83.01
Timing: (in seconds)				
	Stimulus:	10	9	9
	Response:	31	31	*
RE03	Exercise total:	41	40	*

*Time not limited by paced tape.

EXERCISE: RE03

A worker went to his job at 7:45 a.m. and returned home exactly 10 hours later. At what time did he reach home?

RESPONSE: 00 TEXT: No Response.

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	1.0	-0.1	-0.2	-0.1	0.4	0.3	-0.4	1.6	-0.3#	-0.2	0.1	-0.2	-0.3	0.2	-0.2	-0.4	1.3*	0.4	0.1	-0.5
STD ERR OF DP		0.3	0.3	0.4	0.4	0.2	0.2	0.8	0.1	0.7	0.7	0.3	0.2	0.6	0.6	0.2	0.6	0.5	0.5	0.4
STD ERR OF P	0.2	0.4	0.3	0.5	0.4	0.3	0.3	0.9	0.2	0.7	0.7	0.3	0.3	0.6	0.6	0.2	0.7	0.6	0.6	0.4
AGE: 17																				
DELTA-P	0.4	0.6#	-0.3#	-0.1	-0.2	0.2#	-0.2*	0.4	-0.0	1.4#	0.0	-0.1	-0.3#	1.4	1.6#	-0.2	-0.2	0.3	-0.4#	-0.4#
STD ERR OF DP		0.2	0.1	0.2	0.2	0.1	0.1	0.4	0.1	0.4	0.3	0.1	0.1	0.5	0.5	0.1	0.2	0.6	0.1	0.1
STD ERR OF P	0.1	0.3	0.1	0.2	0.2	0.2	0.1	0.4	0.1	0.4	0.3	0.2	0.0	0.6	0.6	0.1	0.2	0.6	0.0	0.0
AGE: AD																				
DELTA-P	0.2	0.8	-0.2	-0.2	-0.2	0.2	-0.2	-0.2	0.0	-0.2	-0.2	0.5	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	1.7	-0.2
STD ERR OF DP		0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	1.6	0.2
STD ERR OF P	0.2	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0

RESPONSE: 01* TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	62.6	-7.3#	-2.4	1.5	8.1#	2.1	-2.3	-25.7#	4.3#	-8.9	-6.0	-2.7	9.3#	-4.4	-11.2	-3.6	2.9	-0.0	3.1	15.4#
STD ERR OF DP		2.3	2.4	2.9	2.0	1.1	1.2	3.0	0.6	6.4	4.0	1.3	1.4	4.4	5.9	2.2	3.7	3.5	3.2	2.9
P-VALUE	62.6	55.3	60.2	64.1	70.7	64.7	60.3	36.9	66.9	53.7	56.7	59.9	71.9	58.2	51.4	59.0	65.5	62.6	65.7	78.1
STD ERR OF P	1.4	2.4	2.9	3.6	1.9	1.9	1.8	2.9	1.4	6.7	4.1	2.3	1.9	4.3	6.5	2.5	4.0	3.8	3.3	2.9
AGE: 17																				
DELTA-P	82.4	-8.8#	0.8	1.7	4.8#	2.2#	-2.0#	-17.6#	4.1#	-19.8#	-9.1#	0.2	8.8#	-15.0#	-13.9#	-0.1	2.6	-1.8	7.2#	9.0#
STD ERR OF DP		1.8	1.7	1.6	1.4	0.8	0.8	3.1	0.6	3.5	2.1	1.9	1.0	2.6	4.8	1.3	1.8	4.5	1.8	1.6
P-VALUE	82.4	73.5	83.2	84.1	87.1	84.5	80.4	64.8	86.5	62.5	73.3	82.6	91.2	67.4	68.5	82.3	85.0	80.6	89.5	91.3
STD ERR OF P	0.9	1.9	2.0	1.9	1.5	1.2	1.2	3.4	0.9	3.7	2.3	2.2	1.1	2.8	4.9	1.4	1.8	4.7	2.1	1.6
AGE: AD																				
DELTA-P	83.0	-2.2	1.2	0.3	0.3	2.7#	-2.5#	-25.4#	3.8#	-5.0#	-3.7	1.4	9.2#	-11.9#	1.1	-1.1	-0.1	1.4	1.0	9.2#
STD ERR OF DP		1.8	1.7	2.1	2.1	1.0	0.9	3.7	0.5	1.6	2.6	1.5	1.1	3.7	2.8	1.3	3.9	3.8	3.4	2.4
P-VALUE	83.0	80.8	84.2	83.3	83.3	85.7	80.6	57.7	86.8	78.1	79.3	84.4	92.3	71.2	84.1	81.9	82.9	84.4	84.0	92.2
STD ERR OF P	1.1	1.7	1.8	2.7	2.4	1.4	1.5	3.9	1.0	2.0	2.7	1.8	1.3	3.9	2.8	1.5	4.3	3.9	3.6	2.4

RESPONSE: 10 TEXT: Correct time with designation for p.m.; 5:45 p.m.; quarter to six p.m.; 17:45; 45 minutes after 5 in the afternoon

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	29.6	-7.5#	-0.7	4.4*	3.3	-0.4	0.4	-16.6#	2.5#	-13.5#	-6.8*	-1.4	7.9#	-7.0*	-5.2	-1.2	1.7	3.5	0.7	5.9
STD ERR OF DP		1.7	1.7	2.1	2.1	1.1	1.2	1.8	0.5	2.9	3.3	1.7	1.4	3.0	3.6	1.8	3.3	3.6	3.3	4.0
STD ERR OF P	1.1	1.7	2.0	2.6	2.5	1.5	1.7	1.9	1.2	2.7	3.3	2.1	1.8	2.9	3.8	2.0	3.5	3.7	3.5	4.3
AGE: 17																				
DELTA-P	46.6	-7.1#	1.8	2.0	2.0	0.6	-0.3	-15.3#	3.1#	-16.0#	-8.6#	-4.4*	10.6#	-12.5#	-13.0#	-0.4	3.2	-1.3	3.3	12.9#
STD ERR OF DP		2.0	1.7	1.9	2.2	1.3	1.2	3.0	0.7	3.5	3.1	2.0	1.2	2.4	3.2	1.6	3.0	4.3	2.5	2.2
STD ERR OF P	1.2	2.2	1.8	2.4	2.7	1.8	1.6	3.1	1.4	3.7	3.0	2.2	1.6	2.2	3.0	1.9	3.2	4.5	2.9	2.4
AGE: AD																				
DELTA-P	47.5	-5.7*	3.6	0.8	0.2	1.8	-1.7	-22.9#	3.1#	-8.0#	-6.7*	4.7*	9.7#	-7.7	0.3	-1.4	-4.1	7.2	0.6	7.6
STD ERR OF DP		2.8	2.6	2.4	2.7	1.2	1.2	4.1	0.7	2.3	3.3	2.1	1.9	4.1	4.2	1.7	3.3	5.5	3.8	4.5
STD ERR OF P	1.5	3.1	3.0	2.8	3.1	1.9	1.9	4.6	1.4	2.7	3.6	2.6	2.5	4.4	4.4	2.3	3.3	6.0	3.7	4.8

RESPONSE: 11 TEXT: Correct time but no designation for p.m.; 5:45; 45 minutes after 5; 15 until 6

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	33.1	0.2	-1.7	-3.0	4.8*	2.5*	-2.7*	-9.1#	1.8#	4.6	0.9	-1.3	1.4	2.6	-5.9	-2.4	1.2	-3.5	2.4	9.5#
STD ERR OF DP		2.2	1.9	2.2	2.3	1.1	1.3	2.5	0.4	6.5	3.6	1.6	1.4	3.2	3.8	1.8	2.5	3.0	2.9	3.7
STD ERR OF P	1.3	2.5	2.0	2.7	2.6	1.6	1.9	2.5	1.3	6.6	3.8	2.1	1.9	3.0	4.2	2.0	2.5	3.2	3.3	4.1
AGE: 17																				
DELTA-P	35.8	-1.8	-1.0	-0.3	2.8	1.8	-1.7	-2.3	1.0	-3.9	-0.5	4.6#	-1.8	-2.5	-0.9	0.4	-0.6	-0.4	3.9	-3.9
STD ERR OF DP		2.4	1.8	1.8	2.3	1.3	1.2	3.2	0.6	3.0	2.4	1.7	1.3	2.6	3.8	1.8	3.0	4.7	2.5	2.5
STD ERR OF P	1.2	2.7	1.9	1.9	2.8	1.6	1.8	3.3	1.4	3.2	2.6	2.3	1.6	2.8	3.9	2.1	3.3	5.1	2.8	2.5

EXERCISE: RE03

A worker went to his job at 7:45 a.m. and returned home exactly 10 hours later. At what time did he reach home?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 11 AGE: A4	TEXT: Correct time but no designation for p.m.; 5:45; 45 minutes after 5; 15 until 6																			
DELTA-P	35.5	3.5	-2.4	-0.5	0.1	0.8	-0.8	-2.4	0.7	3.1	3.0	-3.3	-0.4	-4.2	0.8	0.2	4.0	-5.8	0.5	1.6
STD ERR OF DP		2.7	2.5	2.6	2.7	1.2	1.1	4.4	0.6	2.1	3.0	2.1	2.0	3.7	3.5	1.8	2.8	5.2	5.0	4.6
STD ERR OF P	1.5	2.9	2.8	3.2	3.2	2.1	1.8	4.7	1.6	2.5	3.2	2.8	2.7	3.9	3.6	2.5	3.0	5.3	5.2	4.9
RESPONSE: 12 AGE: 13	TEXT: 5:45 a.m.; 545																			
DELTA-P	2.4	0.5	1.0	-1.2*	-0.3	-0.2	0.2	-0.2	0.0	-0.8	0.3	0.2	-0.5	1.1	0.1	0.1	-1.0	0.3	0.6	-0.9
STD ERR OF DP		0.6	0.6	0.5	0.6	0.3	0.3	0.9	0.2	0.9	1.5	0.5	0.4	1.4	1.1	0.5	0.6	1.1	0.9	0.8
STD ERR OF P	0.3	0.7	0.8	0.5	0.7	0.4	0.5	1.0	0.4	0.9	1.5	0.7	0.5	1.5	1.1	0.6	0.6	1.2	1.0	0.8
AGE: 17																				
DELTA-P	1.5	0.2	-0.3	-0.1	0.2	-0.7*	0.6*	1.3	-0.4	1.9	-0.3	-0.2	-0.2	2.7	-0.5	-0.2	0.0	0.6	-1.3#	0.4
STD ERR OF DP		0.4	0.4	0.5	0.6	0.3	0.3	1.0	0.2	1.3	0.6	0.4	0.4	1.6	0.6	0.4	0.6	1.1	0.3	1.0
STD ERR OF P	0.3	0.4	0.4	0.6	0.8	0.3	0.5	1.1	0.3	1.4	0.7	0.4	0.4	1.7	0.5	0.5	0.6	1.1	0.1	1.1
AGE: Ad																				
DELTA-P	1.0	-0.2	-0.6*	0.4	0.4	0.1	-0.1	2.1*	-0.2	-0.2	1.1	0.2	-0.6	0.5	-1.0#	-0.1	0.0	0.5	0.3	-0.1
STD ERR OF DP		0.4	0.3	0.4	0.5	0.2	0.2	0.9	0.1	0.3	0.7	0.3	0.3	0.9	0.2	0.3	0.7	0.4	0.8	0.7
STD ERR OF P	0.2	0.4	0.3	0.5	0.6	0.3	0.3	0.9	0.3	0.4	0.8	0.4	0.3	0.9	0.0	0.3	0.7	0.3	0.9	0.8
RESPONSE: 20 AGE: 13	TEXT: 7:55; 7:55 p.m.; 755																			
DELTA-P	2.3	0.4	-0.2	0.2	-0.4	-0.4	0.4	3.4#	-0.7#	-0.5	0.2	0.1	-0.8*	1.4	0.7	0.3	-0.5	1.2	-0.7	-1.7#
STD ERR OF DP		0.5	0.5	0.7	0.6	0.3	0.4	1.0	0.2	0.8	1.1	0.6	0.4	1.1	1.4	0.5	0.7	1.3	0.6	0.5
STD ERR OF P	0.3	0.4	0.6	0.8	0.6	0.4	0.5	1.1	0.3	0.8	1.2	0.7	0.5	1.2	1.5	0.5	0.6	1.5	0.6	0.5
AGE: 17																				
DELTA-P	0.4	0.2	0.1	-0.1	-0.2	-0.2	0.2	0.7*	-0.3#	1.7#	0.6	-0.2	-0.4#	1.4#	-0.4#	-0.1	-0.2	0.4	-0.1	-0.4#
STD ERR OF DP		0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.1	0.7	0.4	0.1	0.1	0.3	0.1	0.1	0.2	0.6	0.3	0.1
STD ERR OF P	0.1	0.2	0.2	0.2	0.2	0.0	0.2	0.4	0.1	0.7	0.4	0.2	0.0	0.3	0.0	0.2	0.2	0.6	0.3	0.0
AGE: Ad	Response did not occur at this age.																			
RESPONSE: 21 AGE: 13	TEXT: 4:45; 4:45 p.m.; 445; 4:45 a.m.																			
DELTA-P	4.9	-1.5*	0.4	1.3	-0.4	-0.2	0.2	-3.7#	0.5#	0.2	-1.5	1.0	0.2	-3.6#	2.3	0.6	0.6	-1.0	0.1	-1.9
STD ERR OF DP		0.7	0.8	1.4	0.7	0.5	0.6	0.9	0.2	1.8	1.5	0.8	0.6	0.8	3.6	0.8	1.0	1.1	1.3	1.1
STD ERR OF P	0.6	0.6	0.7	1.9	0.6	0.7	0.9	0.8	0.6	1.7	1.5	1.0	0.8	0.5	4.0	0.8	0.9	1.1	1.3	1.0
AGE: 17																				
DELTA-P	3.9	0.9	-0.6	0.6	-0.8	-0.6	0.5	0.0	0.0	1.7	-1.6*	1.9*	-1.5#	0.1	2.9	0.3	-1.1	-0.2	0.2	-1.9*
STD ERR OF DP		0.9	0.7	0.7	0.7	0.4	0.4	1.0	0.2	1.3	0.8	0.8	0.5	1.4	2.1	0.6	0.9	1.3	0.9	0.8
STD ERR OF P	0.4	1.1	0.8	0.8	0.7	0.6	0.6	1.1	0.5	1.4	0.9	1.0	0.5	1.5	2.3	0.7	1.0	1.3	1.0	0.8
AGE: Ad																				
DELTA-P	2.4	0.5	-0.4	0.0	-0.0	-0.0	0.0	4.6*	-0.5*	0.1	1.8	-0.3	-0.8	-0.7	-0.2	0.4	0.9	1.4	-0.4	-1.8#
STD ERR OF DP		0.7	0.5	0.6	0.6	0.4	0.4	2.0	0.3	0.6	1.3	0.7	0.6	0.9	1.0	0.4	1.1	2.1	1.1	0.6
STD ERR OF P	0.3	0.8	0.4	0.8	0.7	0.6	0.4	2.2	0.3	0.6	1.5	0.7	0.6	0.8	1.1	0.5	1.2	2.3	1.2	0.5
RESPONSE: 22 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	23.9	8.1#	0.9	-1.2	-7.6#	-1.3	1.4	20.9#	-3.1#	8.3	5.2	1.8	-6.5#	3.9	9.0*	2.4	-2.4	-0.9	-3.6	-9.2#
STD ERR OF DP		1.8	1.9	1.9	1.7	0.8	0.9	3.2	0.6	6.1	4.3	1.5	1.2	3.7	3.8	2.1	2.7	3.1	2.6	2.3
STD ERR OF P	1.0	1.9	2.3	2.3	1.8	1.3	1.3	3.4	1.0	6.3	4.3	1.7	1.5	3.8	3.8	2.3	2.8	3.4	2.8	2.5

EXERCISE: RE03

A worker went to his job at 7:45 a.m. and returned home exactly 10 hours later. At what time did he reach home?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 22 AGE: 17	TEXT: Other Unacceptable																			
DELTA-P	10.5	5.7*	0.5	-1.3	-3.9*	-1.0	0.9	13.4*	-3.1*	13.3*	8.3*	-1.1	-5.6*	10.0*	9.7*	0.1	-0.7	-1.5	-5.5*	-5.0*
STD ERR OF DP		1.5	1.2	1.2	0.9	0.7	0.7	2.6	0.5	3.1	1.9	1.3	0.7	2.5	2.9	1.1	1.5	3.0	1.3	1.1
STD ERR OF P	0.7	1.7	1.4	1.5	1.0	1.0	1.0	2.8	0.6	3.2	2.1	1.5	0.8	2.8	2.9	1.2	1.5	3.1	1.4	1.1
AGE: Ad																				
DELTA-P	12.2	0.5	-0.4	-0.1	0.2	-2.5*	2.3*	14.4*	-2.3*	3.9*	1.4	-0.8	-6.7*	9.0*	0.6	0.9	-0.4	-2.9	-1.4	-5.9*
STD ERR OF DP		1.3	1.5	1.8	1.9	0.8	0.8	3.0	0.4	1.5	2.0	1.3	1.1	2.9	2.2	1.1	3.1	2.7	2.6	2.1
STD ERR OF P	1.0	1.2	1.6	2.3	2.3	1.1	1.4	3.2	0.9	1.9	2.1	1.7	1.2	3.1	2.2	1.4	3.5	2.7	2.8	2.0
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	2.8	-0.0	0.4	-0.5	0.2	-0.4	0.4	3.0*	-0.6*	1.9	1.7	-0.3	-1.4*	1.4	-0.8	0.6	-0.8	0.0	0.4	-1.2
STD ERR OF DP		0.7	0.6	0.4	0.6	0.3	0.3	1.5	0.2	1.5	1.4	0.5	0.4	1.8	0.8	0.4	1.1	1.1	0.9	0.8
STD ERR OF P	0.3	0.8	0.7	0.4	0.6	0.4	0.5	1.6	0.3	1.6	1.5	0.6	0.4	1.9	0.8	0.4	1.2	1.2	0.9	0.8
AGE: 17																				
DELTA-P	1.1	1.2*	-0.2	-0.8*	0.1	-0.1	0.1	1.0*	-0.4*	-0.1	2.0*	-0.5*	-0.8*	-0.4	0.5	0.1	-0.6	2.0	-0.1	-1.0*
STD ERR OF DP		0.4	0.3	0.2	0.4	0.2	0.2	0.6	0.2	0.5	0.9	0.3	0.3	0.5	0.7	0.3	0.4	1.6	0.5	0.2
STD ERR OF P	0.2	0.5	0.3	0.1	0.5	0.2	0.3	0.7	0.2	0.5	1.0	0.2	0.2	0.5	0.8	0.3	0.5	1.7	0.5	0.1
AGE: Ad																				
DELTA-P	1.2	0.6	0.5	-0.3	-0.6	-0.5	0.4	4.4*	-0.8*	1.4*	-0.3	-1.0*	-0.9*	3.3	-0.2	0.1	-0.2	-0.2	-1.2*	-1.2*
STD ERR OF DP		0.7	0.5	0.3	0.4	0.3	0.3	1.7	0.2	0.5	0.5	0.3	0.3	1.7	0.6	0.3	0.6	0.8	0.3	0.3
STD ERR OF P	0.3	0.8	0.6	0.4	0.3	0.3	0.4	1.8	0.1	0.7	0.5	0.1	0.2	1.9	0.6	0.4	0.7	0.7	0.0	0.0

RE04
OBJ II

A girl is 30 months old. Express her age in years and months.

ANSWER ________ years and ________ months

SCORING GUIDE
RE04
E11012-234

00 = No Response

10 = 2 years 6 months

20 = Other Unacceptable

39 = I Don't Know.

Report #: RE04

NAEP #: E11012-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		05-08	01-20	07-11
National P-value:				
	RE04	76.12	91.75	92.46
Timing: (in seconds)				
	Stimulus:	5	5	5
	Response:	41	40	*
RE04	Exercise total:	46	45	*

*Time not limited by paced tape.

EXERCISE: RE04

A girl is 30 months old. Express her age in years and months.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	2.1	0.3	0.9	-0.4	-0.7	0.4	-0.4	3.5#	-0.7#	2.1	-1.0	-0.5	-0.7	3.1*	0.8	0.6	-0.1	-0.9	-1.3*	-1.4*
STD ERR OF DP		0.6	0.9	0.5	0.6	0.4	0.4	1.2	0.3	1.5	0.7	0.3	0.4	1.3	1.0	0.8	0.8	0.8	0.6	0.6
STD ERR OF P	0.4	0.6	1.2	0.6	0.6	0.7	0.4	1.3	0.4	1.5	0.6	0.5	0.3	1.4	1.1	1.1	0.8	0.8	0.5	0.6
AGE: 17																				
DELTA-P	0.3	0.1	-0.1	-0.3*	0.3	0.0	-0.0	1.6*	-0.3*	0.5	0.5	-0.3*	-0.3*	2.3	-0.1	-0.2	-0.1	-0.3*	-0.1	-0.3*
STD ERR OF DP		0.2	0.2	0.2	0.4	0.1	0.1	0.7	0.2	0.5	0.4	0.2	0.2	1.8	0.3	0.2	0.3	0.2	0.3	0.2
STD ERR OF P	0.2	0.2	0.2	0.0	0.6	0.2	0.2	0.9	0.0	0.5	0.5	0.0	0.0	1.9	0.2	0.1	0.3	0.0	0.3	0.0
AGE: Ad																				
DELTA-P	0.2	0.1	-0.2	-0.2	0.3	0.2	-0.2	0.3	-0.0	-0.2	0.6	-0.2	-0.2	-0.2	0.5	0.1	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.2	0.1	0.1	0.4	0.1	0.1	0.5	0.1	0.1	0.6	0.1	0.1	0.1	0.6	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.0	0.5	0.3	0.0	0.5	0.1	[illegible]	0.7	0.0	0.0	0.0	0.6	0.3	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 13 TEXT: 2 years 6 months																				
DELTA-P	76.1	-7.3*	-0.4	0.6	6.4#	0.3	-0.3	-30.8#	5.9#	-24.4#	-6.5#	2.9*	9.0#	-23.7#	-3.1	-0.9	3.3	-1.1	3.3	13.6#
STD ERR OF DP		3.6	2.3	2.2	2.4	0.9	0.9	2.8-	0.9	4.3	2.6	1.3	1.2	6.1	4.0	1.9	2.5	4.7	2.7	2.1
P-VALUE	76.1	68.8	75.7	76.8	82.5	76.4	75.8	45.4	82.0	51.7	69.6	79.0	85.1	52.4	73.0	75.2	79.4	75.0	79.5	89.7
STD ERR OF P	1.5	4.3	2.5	2.5	2.6	1.6	1.9	3.5	1.2	4.8	2.9	2.0	1.3	6.4	4.6	2.5	2.5	5.0	2.4	1.9
AGE: 17																				
DELTA-P	91.8	-1.0	-1.5	1.9	0.4	1.4*	-1.3*	-12.5#	2.7#	-4.3	-8.9#	1.7	3.6#	-13.1#	-3.1	0.9	3.0*	-2.7	0.4	6.1#
STD ERR OF DP		1.4	1.4	1.2	1.5	0.7	0.6	1.9	0.5	2.8	2.4	1.0	0.7	2.7	2.5	1.0	1.3	2.1	1.5	1.1
P-VALUE	91.8	90.8	90.3	93.7	92.1	93.1	90.5	79.2	94.4	87.4	82.9	93.4	95.3	78.7	88.6	92.7	94.8	89.0	91.9	97.8
STD ERR OF P	0.8	1.6	1.6	1.2	1.8	1.0	1.1	2.0	0.8	2.9	2.9	1.0	0.7	2.9	2.6	1.3	1.2	2.2	1.6	1.0
AGE: Ad																				
DELTA-P	92.5	-3.4*	0.3	2.1*	0.2	1.0	-0.9	-7.5#	1.2#	-3.3#	-0.1	0.4	3.5#	-7.2*	-1.3	-0.4	2.0	2.5	1.8	1.9
STD ERR OF DP		1.6	1.2	0.9	1.1	0.7	0.6	2.7	0.4	1.1	1.5	1.0	0.9	3.3	2.4	0.9	1.6	2.1	1.9	1.8
P-VALUE	92.5	89.0	92.8	94.6	92.7	93.5	91.5	84.9	93.7	89.2	92.4	92.8	96.0	85.3	91.2	92.1	94.5	95.0	94.3	94.3
STD ERR OF P	0.7	1.9	1.5	0.9	1.2	0.8	1.0	3.0	0.6	1.6	1.6	1.1	1.0	3.6	2.5	1.0	1.7	2.1	2.1	1.9
RESPONSE: 20 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	18.6	4.6	0.7	0.4	-5.5#	-0.2	0.2	19.6#	-3.9#	18.0#	6.2*	-1.7	-6.4#	19.4#	2.5	-0.5	-1.7	-0.7	-0.6	-10.4#
STD ERR OF DP		3.1	1.8	1.9	1.7	0.8	0.8	2.6	0.7	3.9	2.7	1.4	1.2	4.6	3.4	1.5	2.4	3.2	2.3	1.7
STD ERR OF P	1.2	3.7	1.8	2.4	1.6	1.5	1.5	3.1	1.1	4.4	3.2	1.8	1.2	4.9	3.9	2.2	2.4	3.4	2.1	1.5
AGE: 17																				
DELTA-P	7.2	-0.0	1.4	-1.2	-0.3	-1.2	1.2	9.6#	-2.0#	2.6	8.6#	-1.2	-2.5#	8.8#	1.0	-0.5	-3.0#	3.5	0.6	-5.0#
STD ERR OF DP		1.3	1.2	1.1	1.4	0.6	0.6	2.1	0.4	2.6	2.4	0.9	0.7	1.7	1.7	0.9	1.1	2.2	1.5	1.1
STD ERR OF P	0.7	1.4	1.4	1.1	1.7	0.9	0.9	2.2	0.8	2.6	2.8	0.9	0.7	1.8	1.7	1.3	1.0	2.3	1.6	1.0
AGE: Ad																				
DELTA-P	6.3	2.7	0.2	-1.4	-0.8	-0.9	0.9	2.5	-0.6*	1.9*	-0.5	0.2	-2.4#	3.5	1.5	0.1	-0.8	-2.6	-0.6	-0.6
STD ERR OF DP		1.5	1.2	0.8	1.0	0.6	0.6	2.2	0.3	1.0	1.5	0.9	0.9	2.6	2.3	0.8	1.6	1.5	1.9	1.7
STD ERR OF P	0.6	1.8	1.4	0.8	1.1	0.8	1.0	2.4	0.6	1.3	1.5	1.1	1.0	2.9	2.4	0.9	1.7	1.4	2.1	1.9
RESPONSE: 39 AGE: 13 TEXT: I Don't Know,																				
DELTA-P	3.1	2.5#	-1.2*	-0.6	-0.2	-0.4	0.4	7.7#	-1.3#	4.4*	1.3	-0.7	-2.0#	1.2	-0.2	0.8	-1.5*	2.7	-1.5	-1.8
STD ERR OF DP		0.9	0.6	0.7	1.1	0.3	0.3	1.3	0.2	2.1	1.6	0.5	0.5	1.7	0.9	0.6	0.7	2.4	0.7	0.9
STD ERR OF P	0.5	1.0	0.5	0.8	1.3	0.6	0.6	1.5	0.4	2.2	1.7	0.6	0.5	1.6	1.0	0.7	0.6	2.8	0.7	0.9
AGE: 17																				
DELTA-P	0.7	0.9	0.1	-0.4	-0.4	-0.2	0.2	1.3	-0.4#	1.2	-0.3	-0.1	-0.7#	1.9*	2.3	-0.2	0.0	-0.5	-0.7#	-0.7#
STD ERR OF DP		0.6	0.3	0.3	0.2	0.2	0.2	0.7	0.1	0.9	0.3	0.3	0.2	0.9	1.8	0.2	0.5	0.3	0.2	0.2
STD ERR OF P	0.2	0.7	0.4	0.2	0.2	0.2	0.3	0.8	0.2	1.0	0.3	0.3	0.0	1.0	1.9	0.2	0.5	0.2	0.0	0.0

EXERCISE: RE04

A girl is 30 months old. Express her age in years and months.

RESPONSE: 39 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.1	0.7	-0.3	-0.5	0.3	-0.2	0.2	4.7#	-0.6#	1.5#	-0.0	-0.4	-0.9#	3.9*	-0.8	0.2	-1.1#	0.3	-1.1#	-1.1#
STD ERR OF DP		0.5	0.4	0.3	0.5	0.2	0.2	1.6	0.2	0.5	0.5	0.3	0.2	1.8	0.4	0.3	0.2	0.9	0.2	0.2
STD ERR OF P	0.2	0.6	0.4	0.3	0.6	0.3	0.3	1.7	0.1	0.7	0.5	0.4	0.2	2.0	0.3	0.4	0.0	0.9	0.0	0.0

R805
[illegible]

A turkey is to be cooked 20 minutes for each pound. If a turkey weighing $12\frac{1}{2}$ pounds is to be done by 5:00 p.m., what time should it be put in to cook?

ANSWER ____________________

Report #: R805

NAEP #: R11016-30

Content Area: B. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		05-14	05-21
National P-value:			
	R805	25.82	61.92
Timing: (in seconds)			
	Stimulus:	11	12
	Response:	76	*
R805	Exercise total:	87	*

*Time not limited by paced tape.

SCORING GUIDE
R805
R11016-30

00 = No Response

10 = 12:50; ten to 1 (p.m.); 12:50 p.m.; 1250; fifty minutes after twelve

11 = Correct process with no answer or wrong answer; e.g., 5:00 - (20 x 12 1/2) divided by 60; 17:00 - (20 x 12 1/2) divided by 60; 5:00 - (1/3)(12 1/2)

20 = 1:00; 1:00 p.m.; 1 o'clock; 1 in the afternoon

21 = 12:40; 12:40 p.m.; forty minutes after noon

22 = 4:10; 4 hours, 10 minutes

23 = Other Unacceptable

24 = 12:50 a.m.

25 = 2:10

26 = 2:50; attempt at 500 - 250; 500 - (20 x 12 1/2) or 20 x 12 1/2 /

27 = 1:50 with or without work shown other than Category 11 or 26

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

EXERCISE: RE05

A turkey is to be cooked 20 minutes for each pound. If a turkey weighing 12 1/2 pounds is to be done by 5:00 p.m., what time should it be put in to cook?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.3	-0.1	0.2	-0.2	0.2	-0.1	0.1	0.1	-0.1	-0.0	-0.0	-0.1	-0.1	0.0	0.8	-0.3	-0.0	-0.1	-0.3*	0.5
STD ERR OF DP		0.2	0.3	0.1	0.3	0.1	0.1	0.2	0.1	0.2	0.[illegible]	0.1	0.2	0.3	0.8	0.1	0.2	0.2	0.1	0.7
STD ERR OF P	0.[illegible]	0.1	0.3	0.1	0.4	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.9	0.0	0.2	0.2	0.0	0.8
AGE: Ad																				
DELTA-P	0.3	0.6	0.1	-0.3	-0.3	-0.1	0.1	1.4	-0.2	0.4	-0.3	0.0	-0.3	-0.3	0.7	0.2	-0.3	-0.3	-0.3	-0.3
STD ERR OF DP		0.7	0.3	0.2	0.2	0.2	0.2	1.5	0.2	0.5	0.2	0.3	0.2	0.2	0.9	0.3	0.2	0.2	0.2	0.2
STD ERR OF P	0.2	0.8	0.3	0.0	0.0	0.2	0.3	1.6	0.1	0.7	0.0	0.3	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 17 TEXT: 12:50; 12:50 p.m.; 1250; ten to 1 (p.m.); fifty minutes after twelve (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	35.0	-3.2	-0.1	-0.9	3.7	5.2#	-4.5#	-24.3#	5.4#	-20.1#	-16.4#	-3.3	11.6#	-18.4#	-2.9	-1.3	3.1	2.3	4.0	11.0*
STD ERR OF DP		2.9	2.7	2.7	3.6	1.6	1.5	2.7	1.0	3.1	2.8	1.8	1.4	4.9	6.3	2.3	3.4	5.2	5.4	5.2
P-VALUE	35.0	31.9	34.9	34.2	38.7	40.2	30.5	10.7	40.4	14.9	18.6	31.8	46.6	16.7	32.1	33.7	38.1	37.3	39.0	46.1
STD ERR OF P	1.7	3.0	2.9	3.2	4.4	2.1	2.5	2.4	1.9	3.2	2.9	2.6	1.9	5.3	6.6	2.9	3.3	5.0	5.7	5.7
AGE: Ad																				
DELTA-P	41.9	-5.8	0.6	0.3	3.9	4.1#	-3.9#	-27.7#	4.4#	-12.6#	-10.8#	6.5#	14.2#	-17.5#	-5.0	-1.2	4.8	1.9	-3.8	16.7#
STD ERR OF DP		3.4	2.7	2.7	3.0	1.1	1.1	2.9	0.7	1.8	2.6	2.1	2.2	3.8	4.9	1.8	5.0	6.1	3.3	3.0
P-VALUE	41.9	36.2	42.5	42.2	45.8	46.1	38.1	14.2	46.3	29.3	31.1	48.4	56.1	24.4	36.9	40.8	46.7	43.8	38.1	58.6
STD ERR OF P	1.7	3.8	3.0	3.1	3.6	2.0	2.0	2.8	1.8	2.4	2.9	2.6	3.0	3.6	5.0	2.4	5.5	6.6	3.6	3.1
RESPONSE: 11 AGE: 17 TEXT: Correct process with no answer or wrong answer; e.g., 5:00-(20 x 12 1/2) divided by 60; 17:00-(20 x 12 1/2) divided by 60; 5:00-(1/3)(12 1/2)																				
DELTA-P	5.9	-2.0*	-1.3	3.0#	-0.6	-0.8	0.7	-3.6#	0.9#	-4.1#	-3.4#	-0.3	2.0#	-2.4	-0.1	-1.1	1.6	-3.8#	2.2	3.1
STD ERR OF DP		1.0	1.0	1.2	1.0	0.6	0.5	1.1	0.2	0.9	1.0	0.9	0.6	2.0	2.4	0.8	1.9	1.3	3.5	2.0
STD ERR OF P	0.6	1.0	1.1	1.6	1.1	0.9	0.8	1.0	0.7	0.7	0.9	1.2	0.9	1.7	2.4	0.9	2.1	1.2	3.8	2.1
AGE: Ad																				
DELTA-P	7.8	-1.1	0.4	0.5	-0.1	0.8	-0.7	-5.5#	0.5	-1.5	-0.4	-0.1	1.8	-3.1	-0.4	1.4	-2.0	-4.3#	0.4	2.5
STD ERR OF DP		1.3	1.2	1.2	1.4	0.6	0.6	1.2	0.3	1.1	1.4	1.0	1.3	1.6	2.5	1.0	1.8	1.7	1.9	2.0
STD ERR OF P	0.7	1.4	1.3	1.5	1.6	1.1	0.8	1.2	0.8	1.2	1.6	1.2	1.6	1.7	2.6	1.2	1.9	1.7	2.1	2.3
RESPONSE: 20 AGE: 17 TEXT: 1:00; 1:00 p.m.; 1 o'clock; 1 in the afternoon																				
DELTA-P	4.9	-0.1	0.4	-0.4	0.2	-0.6	0.5	-1.1	-0.1	2.3	0.5	0.5	-0.6	0.7	3.7	-0.6	0.5	0.1	0.9	-2.5#
STD ERR OF DP		0.9	0.7	0.7	0.7	0.5	0.5	1.0	0.2	2.3	1.3	0.9	0.6	1.1	2.3	0.6	1.1	1.4	1.3	0.9
STD ERR OF P	0.4	1.0	0.8	0.8	0.8	0.7	0.6	1.1	0.5	2.4	1.4	1.1	0.6	1.1	2.5	0.7	1.1	1.4	1.4	0.9
AGE: Ad																				
DELTA-P	5.2	-1.0	0.3	1.8	-1.5	-1.8#	1.7#	-0.1	0.0	-0.1	3.2	1.0	-2.7#	1.0	2.1	0.5	-2.8#	-0.9	1.8	-2.2
STD ERR OF DP		1.0	0.9	1.3	1.0	0.5	0.4	1.5	0.2	1.0	1.6	1.2	0.8	1.7	2.6	0.9	0.9	1.6	1.6	1.2
STD ERR OF P	0.7	1.0	0.8	1.8	1.1	0.7	0.9	1.6	0.7	1.0	1.8	1.6	0.9	1.8	2.7	1.2	0.7	1.7	1.7	1.3
RESPONSE: 21 AGE: 17 TEXT: 12:40; 12:40 p.m.; forty minutes after 12 (noon)																				
DELTA-P	1.4	-0.1	-0.4	0.0	0.4	-0.1	0.1	-0.2	0.1	-1.4#	-0.2	0.3	0.3	0.1	-0.0	0.3	-0.5	-1.4#	0.2	0.3
STD ERR OF DP		0.5	0.5	0.5	0.6	0.3	0.3	0.7	0.1	0.3	0.6	0.5	0.4	1.0	0.9	0.4	0.5	0.3	1.0	0.9
STD ERR OF P	0.3	0.6	0.6	0.6	0.7	0.4	0.4	0.8	0.4	0.0	0.6	0.6	0.5	1.1	1.0	0.5	0.5	0.0	1.1	1.0
AGE: Ad																				
DELTA-P	0.8	-0.2	0.6	-0.3	-0.2	-0.5*	0.4*	-0.8#	0.2#	-0.4	0.5	0.1	0.1	-0.1	-0.8#	0.0	-0.2	1.1	1.0	-0.8#
STD ERR OF DP		0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.0	0.3	0.6	0.3	0.4	0.6	0.2	0.2	0.6	1.2	0.8	0.2
STD ERR OF P	0.2	0.3	0.5	0.4	0.3	0.2	0.3	0.0	0.2	0.2	0.6	0.3	0.5	0.6	0.0	0.3	0.6	1.3	0.9	0.0
RESPONSE: 22 AGE: 17 TEXT: 4:10; 4 hours 10 minutes																				
DELTA-P	0.5	-0.3	-0.5*	-0.2	0.8	0.3	-0.3	-0.3	0.0	-0.4	0.2	0.2	-0.1	1.3	-0.5*	0.4	-0.4	-0.5#	-0.5#	-0.5*
STD ERR OF DP		0.3	0.2	0.3	0.6	0.2	0.2	0.3	0.1	0.2	0.5	0.2	0.2	1.3	0.2	0.3	0.3	0.2	0.2	0.2
STD ERR OF P	0.2	0.2	0.1	0.2	0.8	0.4	0.1	0.2	0.3	0.1	0.6	0.4	0.2	1.4	0.1	0.4	0.2	0.0	0.0	0.1

EXERCISE: RE05

A turkey is to be cooked 20 minutes for each pound. If a turkey weighing 12 1/2 pounds is to be done by 5:00 p.m., what time should it be put in to cook?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 22 AGE: Ad TEXT: 4:10; 4 hours 10 minutes																				
DELTA-P	0.8	-0.3	-0.1	0.7	-0.4	0.2	-0.2	-0.6*	0.1#	0.4	-0.3	-0.1	0.0	0.2	-0.8#	0.1	-0.4	-0.8#	-0.2	1.2
STD ERR OF DP		0.4	0.4	0.5	0.3	0.3	0.2	0.3	0.1	0.5	0.4	0.3	0.4	0.7	0.2	0.3	0.4	0.2	0.5	0.8
STD ERR OF P	0.2	0.4	0.4	0.7	0.2	0.4	0.3	0.2	0.3	0.7	0.5	0.3	0.4	0.7	0.0	0.3	0.3	0.0	0.6	1.0
RESPONSE: 23 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	32.1	1.1	-0.1	0.4	-1.3	-1.1	1.0	24.4#	-5.2#	13.2#	14.0#	1.0	-8.2#	16.5#	-0.3	0.8	-4.8	-2.6	-3.4	-4.8
STD ERR OF DP		3.0	3.1	2.5	2.9	1.2	1.0	3.5	1.0	3.7	3.0	1.8	1.3	5.8	6.9	2.2	2.6	4.2	2.8	4.4
STD ERR OF P	1.7	3.3	3.7	2.9	3.3	1.8	2.1	3.8	1.7	4.0	3.5	2.7	1.5	6.3	7.3	2.7	2.5	4.3	2.9	4.8
AGE: Ad																				
DELTA-P	29.7	5.2	-2.9	0.7	-2.1	-2.6*	2.4*	18.7#	-2.5#	6.4#	7.7#	-3.7	-9.1#	12.0#	2.9	0.2	2.7	4.6	-1.1	-15.1#
STD ERR OF DP		2.7	1.9	1.8	2.3	1.1	1.0	4.2	0.6	1.9	2.9	2.0	2.0	4.1	5.5	1.5	4.1	5.3	3.4	2.7
STD ERR OF P	1.3	3.2	2.1	2.0	2.8	1.8	1.4	4.6	1.2	2.2	3.2	2.3	2.4	4.4	5.9	1.5	4.4	5.7	3.1	2.8
RESPONSE: 24 AGE: 17 TEXT: 12:50 a.m.																				
DELTA-P	0.5	-0.3	0.7	-0.1	-0.3	0.1	-0.1	0.0	-0.0	-0.2	1.2	0.1	-0.2	-0.0	1.1	-0.0	0.1	-0.5#	-0.2	-0.3
STD ERR OF DP		0.2	0.5	0.2	0.2	0.2	0.2	0.4	0.1	0.3	1.3	0.3	0.2	0.4	1.4	0.2	0.4	0.2	0.3	0.2
STD ERR OF P	0.2	0.1	0.6	0.3	0.2	0.3	0.2	0.4	0.2	0.2	1.4	0.3	0.1	0.4	1.5	0.2	0.4	0.0	0.2	0.2
AGE: Ad																				
DELTA-P	0.6	-0.4	0.2	0.1	0.1	0.0	-0.0	0.1	-0.1	-0.1	-0.6#	-0.5#	1.0	0.6	-0.6#	-0.3	0.1	-0.4	-0.4	1.4
STD ERR OF DP		0.3	0.4	0.3	0.3	0.2	0.2	0.5	0.1	0.3	0.2	0.2	0.5	0.7	0.2	0.2	0.6	0.3	0.3	0.9
STD ERR OF P	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.5	0.2	0.3	0.0	0.1	0.7	0.8	0.0	0.2	0.7	0.3	0.2	1.0
RESPONSE: 25 AGE: 17 TEXT: 2:10																				
DELTA-P	3.8	1.3	-0.7	-0.6	0.3	-0.1	0.0	-1.5	0.5*	1.8	-0.5	0.8	-0.4	-1.8	0.4	0.5	0.9	-2.5#	0.2	0.0
STD ERR OF DP		1.0	0.7	0.6	0.8	0.5	0.5	1.2	0.2	1.9	1.1	0.7	0.5	1.4	1.2	0.6	1.1	0.7	1.2	1.2
STD ERR OF P	0.4	1.1	0.8	0.7	1.0	0.7	0.7	1.3	0.5	2.1	1.1	0.8	0.7	1.5	1.3	0.8	1.2	0.6	1.2	1.3
AGE: Ad																				
DELTA-P	3.9	1.8	0.1	-1.4*	-0.1	0.4	-0.4	-1.4	-0.1	0.6	-0.4	0.2	-0.6	-1.4	0.7	-0.3	-1.4	-0.7	2.2	1.0
STD ERR OF DP		1.0	0.7	0.6	1.0	0.5	0.5	1.0	0.2	0.8	1.1	0.8	0.8	1.1	1.2	0.6	1.0	1.4	2.3	1.9
STD ERR OF P	0.5	1.2	0.8	0.5	1.2	0.8	0.6	1.1	0.5	0.9	1.3	1.0	0.8	1.1	1.1	0.6	1.0	1.5	2.5	2.1
RESPONSE: 26 AGE: 17 TEXT: 2:50; attempt at 500 - 250; 500 - (20 x 12 1/2) or 20 x 12 1/2																				
DELTA-P	8.5	1.3	-1.5	0.8	-0.5	-1.6*	1.4*	1.6	-0.0	2.3	1.3	1.7	-2.1#	1.6	-0.1	0.4	-1.1	5.1*	-0.2	-3.4*
STD ERR OF DP		1.3	1.0	1.4	1.4	0.8	0.7	2.0	0.3	2.0	1.8	1.2	0.7	1.9	2.3	1.2	1.7	2.4	1.9	1.5
STD ERR OF P	0.8	1.4	1.0	1.7	1.7	1.0	1.1	2.1	0.9	2.0	2.0	1.6	0.9	2.0	2.3	1.5	1.7	2.6	2.1	1.5
AGE: Ad																				
DELTA-P	2.8	-0.0	1.6	-1.2	-0.4	-0.0	0.0	0.5	-0.1	0.6	0.7	-0.7	-0.5	-0.0	2.6	-0.7	-0.3	0.4	2.3	-1.5
STD ERR OF DP		0.7	1.0	0.7	0.7	0.4	0.4	1.6	0.2	0.6	1.0	0.5	0.7	1.6	3.0	0.5	1.1	1.7	1.7	0.8
STD ERR OF P	0.5	0.7	1.3	0.8	0.8	0.7	0.6	1.6	0.5	1.0	1.2	0.5	0.8	1.7	3.2	0.5	1.2	1.8	1.9	0.7
RESPONSE: 27 AGE: 17 TEXT: 1:50 with or without work shown other than Category 11 or 26																				
DELTA-P	1.9	1.3*	0.2	-0.2	-1.0#	-0.0	0.0	-0.2	0.0	0.3	0.7	-0.5	0.1	-0.3	0.0	0.5	-0.3	-0.0	-1.0	0.1
STD ERR OF DP		0.6	0.4	0.3	0.4	0.3	0.2	0.6	0.1	1.1	0.9	0.3	0.2	0.8	0.8	0.4	0.5	1.0	0.6	0.7
STD ERR OF P	0.2	0.8	0.4	0.4	0.4	0.4	0.3	0.7	0.3	1.2	1.0	0.3	0.3	0.8	0.8	0.6	0.5	1.0	0.6	0.7
AGE: Ad																				
DELTA-P	1.1	-0.1	-0.2	0.7	-0.5	-0.4	0.4	2.0	-0.2	0.7	0.2	-0.2	-0.6	0.3	0.2	0.5	-0.6	0.7	-0.9*	-1.1#
STD ERR OF DP		0.4	0.4	0.6	0.4	0.3	0.2	1.6	0.2	0.5	0.6	0.4	0.4	1.0	0.7	0.4	0.4	1.6	0.4	0.3
STD ERR OF P	0.3	0.3	0.4	0.8	0.4	0.3	0.4	1.7	0.3	0.7	0.7	0.6	0.3	1.1	0.7	0.5	0.4	1.7	0.3	0.0

EXERCISE: RE05

A turkey is to be cooked 20 minutes for each pound. If a turkey weighing 12 1/2 pounds is to be done by 5:00 p.m., what time should it be put in to cook?

RESPONSE: 39 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	5.2	1.2	3.0*	-1.6	-1.9*	-1.1*	1.0	5.1*	-1.5*	6.4*	1.9	-0.3	-2.4*	2.7	-2.1	0.6	0.9	4.0	-1.8	-3.5*
STD ERR OF DP		1.1	1.3	0.9	0.9	0.6	0.5	1.9	0.4	3.0	1.6	0.8	0.6	2.2	1.2	0.8	1.7	2.9	1.2	0.9
STD ERR OF P	0.6	1.2	1.6	1.0	1.0	0.8	0.8	2.1	0.5	3.2	1.6	0.9	0.6	2.3	1.2	1.1	1.9	3.1	1.0	0.7
AGE: AD																				
DELTA-P	5.0	1.2	-0.5	-1.8	1.5	-0.2	0.2	13.5*	-2.2*	5.6*	0.4	-2.4*	-3.3*	8.4*	-1.6	-0.5	0.3	-1.3	-1.1	-2.0
STD ERR OF DP		1.8	1.1	1.0	1.4	0.6	0.6	2.8	0.5	1.1	1.3	0.7	0.7	3.1	1.4	0.8	2.0	2.4	1.4	1.6
STD ERR OF P	0.7	2.1	1.1	0.9	1.7	1.1	0.8	3.2	0.5	1.7	1.6	0.7	0.7	3.3	1.4	1.0	2.3	2.6	1.5	1.6

RE06
OBJ IV

If Independence Day comes on Monday, July 4, what is the date of the next Monday after Independence Day?

ANSWER ____________________

Report #: RE06

NAEP #: E11020-1

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		06-30
National P-value:		
	RE06	44.50

Timing: (in seconds)

	Stimulus:	8
	Response:	26
RE06	Exercise total:	34

SCORING GUIDE
RE06
E11020-1

00 = No Response

10 = July 11

11 = 11 (with no month)

20 = 10; July 10

21 = 12; July 12

22 = 8 (days)

23 = July 5; 5; Tuesday; next day

24 = Other Unacceptable; e.g., 14, August 11

39 = I Don't Know.

EXERCISE: EH06

If Independence Day comes on Monday, July 4, what is the date of the next Monday after Independence Day?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.7	1.2	-0.5	-1.0	0.3	0.8*	-0.8*	2.9#	-0.6#	-0.8	-1.0	-1.3#	-1.0*	4.6#	0.2	-0.6	-0.6	1.4	-0.9	-1.8#
STD ERR OF DP		0.9	0.7	0.5	0.7	0.4	0.4	1.0	0.2	1.5	1.1	0.5	0.4	1.3	1.1	0.6	1.1	1.0	0.6	0.6
STD ERR OF P	0.4	1.2	0.7	0.5	0.7	0.7	0.4	1.2	0.4	1.8	1.0	0.5	0.5	1.5	1.1	0.6	1.2	1.2	0.7	0.6
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	44.5	-7.5#	-1.5	5.0	2.7	0.5	-0.5	-20.5#	4.8#	-2.3	5.6	3.1	9.1#	-15.3#	-0.0	-2.1	1.3	-1.7	7.5	8.7#
STD ERR OF DP		2.8	2.5	2.8	2.4	1.1	1.1	2.9	0.9	3.6	4.7	2.6	1.9	3.4	6.3	2.4	3.5	3.8	4.0	3.3
P-VALUE	44.5	37.0	43.0	49.5	47.2	45.0	44.0	24.1	49.3	42.2	38.9	47.6	53.6	29.2	44.5	42.4	45.8	42.8	52.0	53.2
STD ERR OF P	1.6	3.1	2.5	3.5	2.7	1.8	2.0	3.1	1.5	4.0	5.0	3.4	2.3	3.7	6.6	2.8	3.6	4.1	4.2	3.6
RESPONSE: 10 AGE: 9 TEXT: July 11																				
DELTA-P	25.6	-6.5#	2.0	0.6	3.8*	-1.0	1.1	-18.9#	4.5#	-3.6	-6.5	1.0	6.8#	-17.6#	-0.8	-2.4	1.1	-2.1	9.5*	10.4#
STD ERR OF DP		1.9	2.1	1.8	1.9	0.9	1.0	1.5	0.6	3.8	4.0	2.0	2.1	2.1	4.2	1.9	2.7	3.8	4.4	3.3
STD ERR OF P	1.1	2.2	2.4	2.2	2.2	1.5	1.4	0.9	1.3	3.8	4.4	2.3	2.4	1.6	4.3	2.1	2.9	3.8	4.5	3.6
RESPONSE: 11 AGE: 9 TEXT: 11 (with no month)																				
DELTA-P	18.9	-1.1	-3.4*	4.4*	-1.1	1.5	-1.5	-1.5	0.3	1.3	0.9	2.1	2.3	2.3	0.8	0.3	0.2	0.4	-2.0	-1.7
STD ERR OF DP		2.6	1.6	2.0	2.0	0.9	0.9	2.4	0.5	3.3	3.8	1.7	1.5	3.3	3.2	1.8	3.4	2.1	2.9	4.1
STD ERR OF P	1.2	3.1	1.2	2.4	2.2	1.6	1.4	2.8	1.4	3.5	3.7	2.5	2.2	3.4	3.3	2.2	3.7	1.9	3.3	4.3
RESPONSE: 20 AGE: 9 TEXT: 10; July 10																				
DELTA-P	3.3	-0.9	1.1	-0.3	0.2	-0.6	0.6	-0.2	0.0	1.1	0.4	-0.5	-0.7	-0.7	-1.6*	0.6	-1.3	-0.7	0.4	2.1
STD ERR OF DP		0.5	0.8	0.7	0.7	0.4	0.4	0.8	0.2	1.9	1.7	0.6	0.5	1.0	0.7	0.5	0.7	0.9	1.4	1.5
STD ERR OF P	0.4	0.4	1.0	0.8	0.8	0.5	0.6	0.8	0.5	2.0	1.7	0.6	0.6	1.0	0.6	0.5	0.7	1.0	1.5	1.6
RESPONSE: 21 AGE: 9 TEXT: 12; July 12																				
DELTA-P	7.3	1.7	0.6	-0.8	-1.1	-1.3*	1.4*	0.1	-0.0	-1.8	-1.2	1.0	1.1	-2.6*	0.9	1.2	2.4	-1.5	-3.4#	0.1
STD ERR OF DP		1.1	0.8	0.8	1.1	0.6	0.6	1.6	0.3	1.7	2.2	1.0	0.9	1.1	2.1	1.1	1.5	1.5	1.0	1.4
STD ERR OF P	0.6	1.3	0.7	0.9	1.3	0.8	0.8	1.7	0.7	1.7	2.3	1.0	1.1	0.9	2.1	1.3	1.7	1.5	1.0	1.5
RESPONSE: 22 AGE: 9 TEXT: 8 (days)																				
DELTA-P	4.3	-0.7	-0.4	0.6	0.4	0.4	-0.4	0.6	-0.1	-1.8	7.5*	0.0	-1.2*	-0.7	-0.6	1.0	0.4	-1.0	0.5	-1.6
STD ERR OF DP		0.7	0.9	0.9	0.8	0.4	0.5	1.2	0.3	1.2	3.2	0.8	0.6	1.3	1.1	0.9	1.1	0.8	1.6	1.4
STD ERR OF P	0.5	0.8	1.0	1.1	1.0	0.7	0.7	1.3	0.6	1.3	3.3	0.9	0.6	1.4	1.1	1.1	1.1	0.9	1.7	1.5
RESPONSE: 23 AGE: 9 TEXT: July 5; 5; Tuesday; next day																				
DELTA-P	13.3	-1.1	2.5	0.6	-1.6	-0.5	0.5	3.1	-1.1	-0.5	0.7	2.6	-1.1	2.7	-1.3	-0.3	1.9	-0.4	0.6	-2.4
STD ERR OF DP		1.5	1.9	1.8	1.8	0.8	0.9	2.8	0.6	2.8	3.2	1.6	1.1	2.4	2.3	1.2	2.6	2.5	2.2	1.8
STD ERR OF P	1.0	1.6	2.1	2.3	2.2	1.2	1.4	3.2	1.1	2.7	3.7	1.9	1.6	2.7	2.4	1.3	3.1	2.9	2.2	2.0
RESPONSE: 24 AGE: 9 TEXT: Other Unacceptable; e.g., 14; August 11																				
DELTA-P	16.3	7.0#	-1.4	-4.3#	-0.7	1.4	-1.5	14.1#	-2.8#	4.2	2.7	-1.4	-3.4*	9.8#	4.3	0.8	-4.9*	2.3	-2.8	-6.0#
STD ERR OF DP		2.4	1.5	1.4	1.4	0.9	0.9	2.9	0.7	3.1	4.0	1.5	1.5	3.5	3.2	1.2	2.0	3.0	2.7	2.1
STD ERR OF P	1.0	3.1	1.5	1.5	1.3	1.4	1.3	3.4	0.9	3.1	4.6	2.0	1.5	3.9	3.4	1.3	2.0	3.4	2.7	2.1
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	8.3	0.3	-0.5	0.2	-0.1	-0.7	0.7	-0.0	-0.3	1.9	-3.6	-3.4#	-2.7#	2.1	-1.9	-0.6	0.8	1.5	-1.9	0.7
STD ERR OF DP		1.2	1.3	1.1	1.0	0.6	0.6	1.5	0.3	2.1	2.1	1.0	0.9	2.3	1.6	1.0	2.0	2.1	2.0	1.4
STD ERR OF P	0.6	1.4	1.4	1.3	1.0	0.8	0.9	1.7	0.7	2.2	2.1	0.9	1.2	2.4	1.6	1.1	2.2	2.3	2.1	1.5

RE07
OBJ IV

Curtains six feet seven inches long are needed for a set of windows. Which one of the following standard curtain lengths is CLOSEST to the length required?

○ 66 inches
○ 72 inches
● 84 inches
○ 90 inches

○ I don't know.

Report #: RE07

NAEP #: R12007-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:	13	17	Adult
Package-Exercise:	07-15	08-26	06-09
National P-value:			
RE07	45.58	66.42	75.36
Timing: (in seconds)			
Stimulus:	18	16	20
Response:	31	30	*
I don't know:	5	5	*
Pause:	8	6	*
RE07 Exercise total:	62	57	*

*Time not limited by paced tape.

EXERCISE: BE07

Curtains six feet seven inches long are needed for a set of windows. Which one of the following standard curtain lengths is CLOSEST to the length required?

RESPONSE: 00 AGE: 13 TEXT: No Response.

	NATION	REGION: SOUTHEAST	REGION: WEST	REGION: CENTRAL	REGION: NORTHEAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.2	-0.1	-0.1	0.2	0.0	0.1	-0.1	0.3	-0.0	-0.2*	-0.2*	-0.2*	0.1	0.8	0.4	-0.2*	-0.2*	-0.2*	-0.2*	0.5
STD ERR OF DP		0.2	0.1	0.2	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.6	0.5	0.1	0.1	0.1	0.1	0.5
STD ERR OF P	0.1	0.1	0.1	0.3	0.2	0.2	0.1	0.4	0.1	0.0	0.0	0.0	0.2	0.6	0.6	0.0	0.0	0.0	0.0	0.6
AGE: 17																				
DELTA-P	1.3	-1.1	1.6	-0.3	-0.3	-0.3	0.2	-0.7	-0.1	-0.4	-0.5	-0.0	-0.5#	1.1	-1.3	-1.0	-1.3	0.8	5.6	-0.8
STD ERR OF DP		0.7	2.1	0.8	0.8	0.2	0.2	0.7	0.1	0.3	0.3	0.4	0.2	1.3	0.7	0.7	0.7	1.9	5.4	0.7
STD ERR OF P	0.7	0.1	2.8	0.7	0.5	0.6	0.8	0.4	0.6	0.9	0.6	0.9	0.6	1.2	0.0	0.2	0.0	2.0	6.1	0.4

AGE: Ad

Response did not occur at this age.

RESPONSE: 01 AGE: 13 TEXT: 66 inches

	NATION	REGION: SOUTHEAST	REGION: WEST	REGION: CENTRAL	REGION: NORTHEAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	13.5	6.2*	-0.7	-3.2*	-1.5	-1.8*	1.7*	13.8#	-2.8#	9.5*	7.1#	-1.3	-4.7#	15.1#	2.7	2.2	-3.6*	0.2	-5.8#	-6.5#
STD ERR OF DP		2.5	1.4	1.6	1.5	0.8	0.8	3.0	0.6	4.7	2.6	1.2	0.9	2.9	3.1	1.4	1.8	2.8	1.8	1.4
STD ERR OF P	1.0	3.1	1.5	1.8	1.5	1.1	1.4	3.4	1.0	5.1	3.0	1.3	1.1	2.9	3.3	1.8	1.8	3.0	1.8	1.3
AGE: 17																				
DELTA-P	6.0	1.3	1.7	-0.2	-2.6#	-1.4#	1.3#	11.6#	-2.1#	7.6#	3.5	0.1	-2.6#	6.3#	0.5	-1.3	1.2	-0.6	-0.1	-2.7*
STD ERR OF DP		1.6	1.2	0.9	0.9	0.5	0.5	1.8	0.4	2.0	2.0	0.7	0.6	2.2	1.9	0.9	1.4	1.8	1.5	1.3
STD ERR OF P	0.6	1.9	1.4	0.9	0.9	0.7	0.9	2.1	0.5	2.3	2.2	1.0	0.6	2.4	2.0	1.1	1.6	1.8	1.5	1.4
AGE: Ad																				
DELTA-P	4.9	1.3	0.7	-1.1	-0.5	-0.9	0.8	9.0#	-1.5#	2.0*	1.4	-1.2	-2.5#	4.5*	-1.8*	1.1	-0.9	1.0	-1.1	-4.0#
STD ERR OF DP		1.0	1.0	0.8	0.8	0.5	0.5	2.3	0.3	0.8	1.4	0.8	0.8	1.8	0.8	0.8	1.2	2.0	1.4	0.8
STD ERR OF P	0.5	1.1	1.2	1.0	0.9	0.7	0.8	2.5	0.5	1.0	1.6	0.8	0.8	2.0	0.6	1.1	1.2	2.1	1.4	0.6

RESPONSE: 02 AGE: 13 TEXT: 72 inches

	NATION	REGION: SOUTHEAST	REGION: WEST	REGION: CENTRAL	REGION: NORTHEAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	26.4	1.9	-1.4	-0.4	0.1	-1.9	1.8	4.0	-0.6	5.2	-3.4	2.9*	-2.0	3.5	-2.1	0.0	0.7	-0.3	1.6	-2.8
STD ERR OF DP		2.9	1.9	1.7	2.0	1.2	1.2	2.3	0.4	3.9	3.3	1.4	1.1	4.0	3.4	1.4	2.3	2.7	3.0	3.0
STD ERR OF P	1.2	3.5	2.0	1.7	2.3	1.5	1.9	2.6	1.3	4.6	3.4	1.6	1.7	4.1	3.9	1.7	2.6	2.8	3.2	3.2
AGE: 17																				
DELTA-P	18.3	1.4	-1.0	0.4	-0.7	-2.4#	2.2#	14.0#	-2.6#	1.9	12.8#	0.2	-6.3#	6.9	-0.5	-1.4	0.1	8.1#	-1.1	-5.5#
STD ERR OF DP		1.7	1.5	1.2	1.3	0.9	0.8	2.4	0.5	2.6	3.4	1.4	1.0	3.6	2.6	1.2	1.9	2.4	2.6	1.6
STD ERR OF P	0.8	2.0	1.7	1.4	1.5	1.2	1.2	2.5	0.8	2.7	3.7	1.4	1.2	3.9	2.6	1.4	2.1	2.3	2.7	1.4
AGE: Ad																				
DELTA-P	15.0	-0.7	-0.6	-0.1	1.2	-1.0	1.0	16.1#	-2.5#	5.8#	-1.4	-2.3	-2.8	3.5	1.0	-0.6	-0.4	4.1	2.4	-5.6#
STD ERR OF DP		1.5	1.3	0.9	1.3	1.0	0.9	3.3	0.5	1.6	2.1	1.2	1.5	2.7	2.1	0.9	1.8	3.6	2.7	2.0
STD ERR OF P	0.7	1.7	1.6	0.8	1.5	1.2	1.1	3.4	0.7	1.8	2.2	1.3	1.7	2.7	2.1	0.8	1.8	3.8	3.0	2.4

RESPONSE: 03* AGE: 13 TEXT: 84 inches

	NATION	REGION: SOUTHEAST	REGION: WEST	REGION: CENTRAL	REGION: NORTHEAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	45.6	-7.6#	2.6	3.1	1.0	3.3#	-3.2#	-24.5#	4.8#	-18.4#	-8.5*	-1.8	10.2#	-22.4#	-0.8	-2.6	7.0#	-4.1	2.5	12.6#
STD ERR OF DP		1.9	2.2	2.2	2.2	1.3	1.2	3.1	0.8	4.3	3.5	1.7	1.3	4.0	3.6	1.8	2.6	3.3	3.2	3.6
P-VALUE	45.6	38.0	48.2	48.7	46.6	48.8	42.4	21.1	50.3	27.1	37.1	43.8	55.8	23.2	44.8	43.0	52.6	41.5	48.1	58.1
STD ERR OF P	1.3	1.9	2.6	2.6	2.6	1.7	1.8	2.9	1.5	4.2	3.5	2.1	2.1	4.1	3.7	2.0	2.9	3.6	3.3	3.7
AGE: 17																				
DELTA-P	66.4	-4.3	-2.5	0.8	5.3#	5.2#	-4.7#	-32.0#	6.4#	-16.9#	-18.2#	-0.3	13.0#	-16.9#	2.0	3.8*	-0.6	-11.8#	-4.9	12.9#
STD ERR OF DP		3.3	2.9	2.0	1.9	1.2	1.1	2.7	0.8	3.9	2.8	1.8	1.2	4.6	2.7	1.6	3.7	4.1	4.7	3.1
P-VALUE	66.4	62.1	63.9	67.2	71.7	71.6	61.7	34.4	72.8	49.6	48.3	66.1	79.4	49.5	68.4	70.3	65.8	54.7	61.6	79.3
STD ERR OF P	1.4	4.0	3.4	2.1	2.0	1.7	2.0	2.9	1.4	3.8	3.2	2.1	1.8	4.8	2.5	1.6	4.3	4.1	5.2	2.9

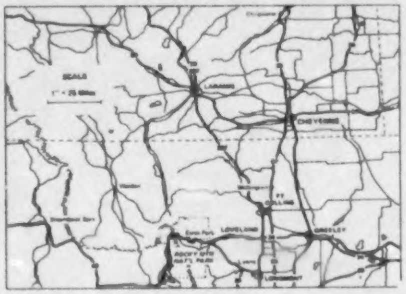
EXERCISE: RE07

Curtains six feet seven inches long are needed for a set of windows. Which one of the following standard curtain lengths is CLOSEST to the length required?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 03* AGE: A4	TEXT: 84 inches																			
DELTA-P	75.4	-0.7	1.1	0.4	-0.9	3.8#	-3.5#	-30.1#	4.8#	-11.1#	-1.1	5.2#	7.4#	-13.0#	-1.7	-0.8	1.7	-2.8	-0.8	13.0#
STD ERR OF DP		2.0	2.1	1.3	1.8	1.2	1.1	3.3	0.7	2.2	2.5	1.7	1.7	3.1	3.1	1.3	2.9	3.5	2.9	2.4
P-VALUE	75.4	74.7	76.4	75.7	74.4	79.1	71.9	45.3	80.1	64.3	74.2	80.6	82.7	62.3	73.6	74.6	77.0	72.5	74.6	88.3
STD ERR OF P	1.0	2.2	2.6	1.3	2.1	1.5	1.6	3.3	1.0	2.5	2.7	1.7	1.9	3.0	3.4	1.5	2.9	3.5	3.3	2.7
RESPONSE: 04 AGE: 13	TEXT: 90 inches																			
DELTA-P	9.4	-0.8	0.2	1.0	-0.5	0.4	-0.4	2.7	-0.5	0.7	4.4	0.7	-1.5	-0.4	0.7	0.9	-3.1*	2.4	2.4	-3.6*
STD ERR OF DP		1.1	1.1	1.2	1.0	0.7	0.7	1.6	0.3	2.3	2.7	1.0	0.8	1.8	1.6	1.2	1.5	1.8	1.2	1.5
STD ERR OF P	0.6	1.3	1.2	1.4	1.1	0.9	1.0	1.7	0.7	2.4	2.8	1.2	0.9	1.8	1.7	1.5	1.6	1.9	1.3	1.7
AGE: 17																				
DELTA-P	4.2	0.2	0.8	0.3	-1.3	-0.1	0.1	2.5	-0.5	4.6*	-2.2#	1.8*	-1.7#	-1.6	-0.8	0.6	0.3	2.0	-0.3	-1.1
STD ERR OF DP		0.9	0.8	0.8	1.0	0.5	0.5	1.9	0.3	2.2	0.9	0.9	0.5	1.1	1.2	0.8	1.1	3.1	1.3	1.1
STD ERR OF P	0.5	0.9	0.9	1.0	1.2	0.7	0.7	2.1	0.5	2.3	0.8	1.2	0.5	1.8	1.2	1.8	1.0	3.3	1.4	1.2
AGE: A4																				
DELTA-P	3.4	-1.3*	-1.1	1.4	0.5	-1.8#	1.7#	3.9*	-0.5*	2.0*	0.3	-1.0*	-0.7	2.8	-0.7	0.6	0.4	-0.9	-0.4	-2.3#
STD ERR OF DP		0.6	0.7	0.8	0.6	0.4	0.4	1.6	0.3	0.9	0.9	0.5	0.8	1.8	1.3	0.6	1.8	1.1	1.2	0.7
STD ERR OF P	0.4	0.5	0.8	1.0	0.6	0.4	0.7	1.7	0.4	1.1	0.9	0.6	0.9	1.9	1.4	0.6	1.9	1.2	1.4	0.6
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	4.9	0.4	-0.6	-0.6	0.9	-0.1	0.1	3.7#	-0.8*	3.3	0.6	-0.2	-2.0#	3.4*	-0.9	-0.3	-0.7	2.0	-0.9	-0.2
STD ERR OF DP		0.9	0.7	0.8	0.9	0.5	0.5	1.4	0.3	1.7	1.7	0.7	0.5	1.4	1.3	0.7	1.0	1.9	1.1	1.5
STD ERR OF P	0.5	1.0	0.7	0.9	1.1	0.7	0.6	1.6	0.6	1.8	1.8	0.9	0.6	1.4	1.4	0.8	1.1	2.0	1.2	1.7
AGE: 17																				
DELTA-P	3.8	2.5*	-0.7	-1.0	-0.4	-1.0	0.9	4.6#	-1.1#	3.2	4.6*	-1.7#	-1.9#	4.2*	0.1	-0.8	0.3	1.4	0.7	-2.8#
STD ERR OF DP		1.0	0.6	0.7	0.8	0.5	0.5	1.1	0.3	1.9	2.0	0.4	0.5	1.9	1.4	0.6	1.2	2.4	2.3	0.6
STD ERR OF P	0.5	1.3	0.6	0.9	0.9	0.5	0.8	1.2	0.5	1.8	2.2	0.6	0.5	1.9	1.4	0.7	1.2	2.5	2.5	0.6
AGE: A4																				
DELTA-P	1.3	1.3	-0.1	-0.6	-0.3	-0.1	0.1	1.8	-0.2	1.7	0.8	-0.6	-1.3#	2.3	3.2	-0.3	-0.7	-1.3#	-0.1	-1.1#
STD ERR OF DP		1.3	0.5	0.5	0.5	0.4	0.3	0.8	0.1	1.0	0.9	0.4	0.4	1.4	2.3	0.3	0.5	0.4	0.7	0.4
STD ERR OF P	0.4	1.6	0.5	0.4	0.5	0.6	0.4	0.8	0.4	1.3	0.9	0.3	0.0	1.5	2.6	0.4	0.5	0.0	0.7	0.2

If one inch is equivalent to 25 miles on the map shown below, about how far is it between Chugwater and Wellington? Use the ruler you have been given to find the answer.

ANSWER ______________________



Report #: 0800

NAEP #: S12015-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		01-04	[illegible]	[illegible]
National P-value:				
	0800	73.93	85.62	85.70
Timing: (in seconds)				
	Stimulus:	12	11	12
	Response:	49	49	*
0800	Exercise total:	61	60	*

*Time not limited by paced tape.

SCORING GUIDE
0800
S12015-234

00 = No Response

10 = 74 to 76; 74 to 76 miles

11 = 80 to 87; 80 to 87 miles

20 = 71 to 73.9; 76.1 to 77 miles

21 = 3 Inches; 3; 3 miles

22 = Other Unacceptable

39 = I Don't Know.

Note: Category 11 was also considered acceptable as the map legend was distorted in printing.

EXERCISE: RE09

If 1 inch equals 25 miles on the map shown below, about how far is it between Chugwater and Wellington? Use the ruler you have been given to find the answer.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	2.1	1.7	1.0	-1.3*	-0.8	0.0	-0.0	2.1*	-1.0*	9.1*	1.5	-1.5#	-1.6#	3.6*	4.5	0.4	-0.7	-0.6	-2.0#	-2.1#
STD ERR OF DP		0.9	1.2	0.5	0.6	0.3	0.3	1.0	0.4	4.1	1.4	0.5	0.5	1.7	3.2	0.7	0.7	0.7	0.5	0.5
STD ERR OF P	0.5	1.0	1.6	0.4	0.5	0.6	0.5	1.1	0.3	4.5	1.5	0.3	0.2	1.7	3.5	0.7	0.6	0.6	0.1	0.0
AGE: 17																				
DELTA-P	1.0	0.4	0.2	0.1	-0.5*	-0.1	0.1	2.6#	-0.7#	0.7	1.0	0.1	-0.7#	2.3*	-0.5	-0.4	-0.2	1.1	-0.4	-0.6
STD ERR OF DP		0.3	0.4	0.4	0.2	0.2	0.2	0.7	0.2	0.9	0.8	0.3	0.2	1.0	0.5	0.2	0.6	1.2	0.4	0.4
STD ERR OF P	0.2	0.3	0.4	0.5	0.2	0.3	0.3	0.8	0.1	1.0	0.9	0.4	0.2	1.1	0.5	0.3	0.6	1.3	0.4	0.4
AGE: Ad																				
DELTA-P	0.4	1.3	-0.2	-0.4	-0.4	0.2	-0.2	-0.2	0.0	0.0	-0.1	0.3	-0.2	-0.4	0.4	-0.2	-0.4	-0.4	1.5	-0.0
STD ERR OF DP		0.8	0.3	0.2	0.2	0.3	0.2	0.3	0.1	0.3	0.3	0.5	0.3	0.2	0.7	0.3	0.2	0.2	1.6	0.4
STD ERR OF P	0.2	1.1	0.2	0.0	0.0	0.5	0.1	0.3	0.3	0.2	0.3	0.7	0.2	0.0	0.7	0.2	0.0	0.0	1.9	0.4
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	73.9	-10.7#	-1.3	3.1	6.4#	2.6#	-2.7#	-33.3#	7.3#	-20.5#	-3.6	0.8	9.7#	-28.7#	-9.2	-0.2	2.2	-3.5	5.4	15.0#
STD ERR OF DP		2.6	2.8	2.5	2.3	0.9	0.9	2.4	1.1	5.3	3.6	1.5	1.3	4.9	5.8	1.9	3.9	3.5	3.5	1.9
P-VALUE	73.9	63.3	72.7	77.0	80.3	76.5	71.3	40.7	81.3	53.5	70.3	74.7	83.7	45.3	64.8	73.8	76.1	70.5	79.3	88.9
STD ERR OF P	1.5	2.7	3.3	3.3	2.5	1.6	1.9	2.4	1.1	5.7	3.5	1.8	1.5	5.1	6.3	1.7	4.1	3.9	3.8	1.3
AGE: 17																				
DELTA-P	85.6	-7.6#	-1.9	3.2	4.3#	1.8	-1.6	-25.0#	4.6#	-7.2*	-8.9#	-0.3	6.5#	-10.6#	0.3	1.0	0.2	-3.4	0.0	9.9#
STD ERR OF DP		2.7	1.6	1.7	1.3	1.0	0.9	2.9	0.8	3.0	2.4	1.3	1.1	3.6	3.3	1.3	2.6	3.5	2.0	2.0
P-VALUE	85.6	78.0	83.7	88.8	89.9	87.5	84.1	60.7	90.2	78.4	76.7	85.4	92.1	75.0	85.9	86.6	85.8	82.3	85.6	95.6
STD ERR OF P	1.0	3.1	1.7	2.1	1.3	1.4	1.4	3.2	0.9	3.4	2.9	1.7	0.8	3.8	3.4	1.6	3.0	3.6	2.1	1.9
AGE: Ad																				
DELTA-P	85.7	-4.9*	0.6	2.0	1.3	2.5*	-2.4*	-29.7#	4.3#	-4.0	-2.2	2.2	6.6#	-19.6#	1.9	0.3	4.0*	-0.6	2.2	6.6*
STD ERR OF DP		2.0	1.7	1.3	1.8	1.1	1.0	5.2	0.7	2.2	2.4	1.6	1.5	5.1	2.3	1.1	1.6	3.6	2.3	2.7
P-VALUE	85.7	80.8	86.3	87.7	87.0	88.2	83.3	56.0	90.0	81.7	83.5	87.9	92.3	66.1	87.6	86.0	89.7	85.2	87.9	92.3
STD ERR OF P	1.0	2.3	2.1	1.3	2.2	1.2	1.6	5.4	0.8	2.5	2.6	1.7	1.4	5.5	2.3	1.4	1.5	3.6	2.7	2.7
RESPONSE: 10 AGE: 13	TEXT: 74 to 76; 74 to 76 miles																			
DELTA-P	71.6	-10.6#	-2.4	3.1	7.4#	2.8#	-2.9#	-34.3#	7.5#	-21.8#	-3.2	1.3	10.0#	-29.2#	-10.3	-0.3	2.8	-4.0	6.2	15.4#
STD ERR OF DP		2.7	2.7	2.5	2.4	0.9	0.9	2.7	1.1	5.0	3.8	1.6	1.3	5.0	5.2	2.0	3.9	3.4	3.6	2.0
STD ERR OF P	1.5	2.9	3.1	3.1	2.6	1.7	1.8	2.7	1.2	5.5	3.8	1.8	1.4	5.2	5.6	2.0	4.2	3.5	3.9	1.5
AGE: 17																				
DELTA-P	83.3	-8.6#	-2.5	3.7*	5.0#	1.6	-1.4	-25.2#	4.6#	-8.6*	-9.1#	0.4	6.6#	-11.7#	1.7	1.0	0.9	-4.5	-0.0	10.0#
STD ERR OF DP		2.8	1.6	1.8	1.4	1.1	0.9	3.0	0.8	3.5	2.3	1.3	1.1	3.9	3.0	1.4	2.7	4.8	2.0	2.3
STD ERR OF P	1.1	3.3	1.6	2.2	1.3	1.5	1.5	3.5	0.9	3.9	2.9	1.8	0.8	4.1	3.5	1.7	3.1	5.0	2.0	2.2
AGE: Ad																				
DELTA-P	83.1	-3.4	-0.1	1.4	1.4	2.3	-2.1*	-29.5#	4.2#	-2.5	-2.0	1.6	5.5#	-18.8#	-0.2	1.3	2.8	-3.9	3.1	6.7*
STD ERR OF DP		2.0	2.1	1.5	1.8	1.2	1.1	5.0	0.7	2.3	2.5	1.6	1.6	5.0	2.9	1.2	2.0	4.3	2.4	2.7
STD ERR OF P	1.0	2.2	2.5	1.6	2.1	1.5	1.6	5.2	1.0	2.5	2.7	1.9	1.6	5.2	3.2	1.5	1.9	4.4	2.6	2.8
RESPONSE: 11 AGE: 13	TEXT: 80 to 87; 80 to 87 miles																			
DELTA-P	2.3	-0.1	1.1	0.0	-1.0*	-0.2	0.2	1.0	-0.2	1.3	-0.4	-0.5	-0.3	0.5	1.1	0.1	-0.6	0.6	-0.8	-0.4
STD ERR OF DP		0.7	0.8	0.6	0.5	0.3	0.3	1.2	0.2	2.1	0.8	0.6	0.4	2.1	1.3	0.6	0.8	1.1	0.7	0.8
STD ERR OF P	0.4	0.8	0.9	0.7	0.4	0.4	0.5	1.4	0.4	2.1	0.9	0.7	0.5	2.3	1.3	0.7	0.8	1.2	0.7	0.8
AGE: 17																				
DELTA-P	2.3	1.0	0.5	-0.5	-0.7	0.2	-0.2	0.3	0.0	1.4	0.2	-0.6	-0.1	1.1	-1.5*	-0.0	-0.7	1.1	0.0	-0.1
STD ERR OF DP		1.1	0.7	0.5	0.4	0.5	0.4	1.0	0.2	2.6	1.0	0.6	0.4	2.0	0.6	0.4	0.8	2.1	0.8	1.1
STD ERR OF P	0.4	1.4	0.8	0.4	0.3	0.6	0.5	1.1	0.5	2.8	1.0	0.7	0.4	2.2	0.6	0.5	0.8	2.2	0.8	1.1

EXERCISE: RR08

If 1 inch equals 25 miles on the map shown below, about how far is it between Chugwater and Wellington? Use the ruler you have been given to find the answer.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 11 AGE: Ad TEXT: 80 to 87; 80 to 87 miles																				
DELTA-P	2.6	-1.5#	0.7	0.6	-0.1	0.2	-0.2	-0.2	0.1	-1.5#	-0.3	0.7	1.1	-0.8	2.1	-1.0*	1.2	3.4	-1.0	-0.1
STD ERR OF DP		0.6	0.9	0.7	0.7	0.5	0.4	1.0	0.1	0.5	0.8	0.8	0.8	0.9	2.8	0.5	1.2	2.8	0.8	1.1
STD ERR OF P	0.4	0.5	1.1	0.9	0.7	0.7	0.5	1.1	0.5	0.4	0.8	1.1	0.9	0.9	3.0	0.5	1.3	2.9	0.8	1.1
RESPONSE: 20 AGE: 13 TEXT: 71 to 73.9; 76.1 to 77 miles																				
DELTA-P	0.5	0.6	-0.2	0.1	-0.4#	-0.2	0.2	-0.5#	0.1#	-0.2	0.4	-0.0	-0.0	-0.5#	-0.5#	0.1	-0.1	0.4	0.2	-0.1
STD ERR OF DP		0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.3	0.9	0.2	0.2	0.2	0.2	0.2	0.3	0.6	0.5	0.4
STD ERR OF P	0.1	0.5	0.2	0.3	0.1	0.2	0.2	0.0	0.2	0.3	0.9	0.2	0.2	0.0	0.0	0.3	0.3	0.7	0.5	0.4
AGE: 17																				
DELTA-P	0.2	-0.3*	0.6	-0.2	-0.2	0.0	0.0	-0.3*	-0.1	0.1	-0.3*	0.1	0.1	-0.3*	0.1	0.0	-0.3*	0.1	0.4	-0.3*
STD ERR OF DP		0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.2	0.1	0.1	0.3	0.2	0.1	0.4	0.4	0.1
STD ERR OF P	0.1	0.0	0.5	0.1	0.1	0.2	0.2	0.0	0.1	0.3	0.0	0.3	0.2	0.0	0.4	0.2	0.0	0.4	0.5	0.0
AGE: Ad																				
DELTA-P	0.2	-0.0	0.2	0.0	-0.2*	0.2*	-0.2*	0.4	-0.1	0.1	-0.2*	-0.1	0.2	-0.2*	-0.2*	0.2	0.3	-0.2*	-0.2*	-0.2*
STD ERR OF DP		0.2	0.3	0.2	0.1	0.1	0.1	0.6	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.5	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.3	0.2	0.0	0.2	0.0	0.6	0.1	0.3	0.0	0.2	0.3	0.0	0.0	0.3	0.6	0.0	0.0	0.0
RESPONSE: 21 AGE: 13 TEXT: 3 inches; 3; 3 miles																				
DELTA-P	5.9	0.2	1.4	-0.5	-0.9	-1.1*	1.1*	9.4#	-2.0#	3.0	-1.9	0.4	-2.4#	9.3*	-1.7	-0.4	-0.9	1.2	-0.3	-1.8
STD ERR OF DP		1.0	1.2	1.1	1.0	0.5	0.5	1.8	0.4	2.5	1.5	0.8	0.6	3.8	1.1	0.8	1.8	1.7	1.6	1.1
STD ERR OF P	0.6	1.0	1.4	1.4	1.0	0.7	0.8	2.1	0.5	2.6	1.4	0.9	0.7	4.0	1.0	0.8	2.0	1.8	1.8	1.1
AGE: 17																				
DELTA-P	1.5	0.9	-0.1	-0.4	-0.2	0.3	-0.2	4.3#	-0.9#	2.2	0.6	-0.3	-1.0#	2.6#	-0.9	-0.1	-0.4	0.5	-0.9*	-0.3
STD ERR OF DP		0.6	0.5	0.4	0.5	0.3	0.3	1.2	0.3	1.6	0.6	0.4	0.3	0.9	0.7	0.4	0.8	1.1	0.4	1.1
STD ERR OF P	0.3	0.7	0.5	0.5	0.6	0.5	0.3	1.4	0.2	1.8	0.6	0.5	0.2	1.1	0.6	0.5	0.9	1.2	0.4	1.2
AGE: Ad																				
DELTA-P	0.3	0.7	-0.3	-0.2	-0.1	-0.1	0.1	1.6	-0.2*	0.6*	0.0	-0.3#	-0.2	1.0	-0.4#	0.1	0.1	-0.4#	-0.4#	-0.4#
STD ERR OF DP		0.4	0.1	0.2	0.2	0.1	0.1	0.8	0.1	0.3	0.2	0.1	0.2	0.8	0.1	0.2	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.5	0.1	0.1	0.2	0.2	0.2	0.9	0.1	0.4	0.3	0.1	0.2	0.8	0.0	0.2	0.3	0.0	0.0	0.0
RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	15.6	7.1#	-1.3	-0.6	-4.0#	-1.1	1.2	20.1#	-4.0#	6.1*	3.5	0.3	-4.6#	14.7#	5.5	0.3	0.4	2.2	-3.0	-10.8#
STD ERR OF DP		1.9	1.7	1.6	1.4	0.8	0.9	2.2	0.6	2.7	2.9	1.2	0.9	3.4	2.9	1.4	2.2	2.2	2.7	1.5
STD ERR OF P	1.0	2.1	2.0	2.1	1.5	1.2	1.4	2.1	0.9	2.7	2.9	1.6	1.2	3.5	3.2	1.7	2.2	2.5	2.8	1.0
AGE: 17																				
DELTA-P	10.3	5.0#	1.3	-2.5	-2.4*	-1.4	1.2	14.9#	-2.3#	2.0	7.0#	0.3	-3.9#	5.6*	0.8	-0.4	-0.5	3.0	0.8	-7.9#
STD ERR OF DP		1.9	1.5	1.3	1.2	0.9	0.7	2.4	0.5	2.5	2.3	1.1	0.9	2.7	2.8	1.1	1.8	3.1	1.9	1.5
STD ERR OF P	0.8	2.2	1.7	1.6	1.2	1.2	1.1	2.7	0.8	2.7	2.7	1.4	0.8	2.9	2.9	1.3	2.0	3.2	2.1	1.3
AGE: Ad																				
DELTA-P	8.8	1.2	0.1	-0.5	-0.5	-0.1	0.1	12.2#	-1.7#	0.7	2.7	-0.0	-2.7*	9.4#	-1.1	0.2	-1.8	-2.8*	-1.1	-2.1
STD ERR OF DP		1.5	1.2	1.0	1.3	0.7	0.7	3.8	0.5	1.4	2.1	1.3	1.2	3.5	1.9	0.8	1.4	1.4	1.5	2.3
STD ERR OF P	0.7	1.7	1.4	1.1	1.5	1.0	1.0	4.2	0.6	1.6	2.4	1.4	1.1	3.8	1.9	0.8	1.4	1.4	1.7	2.6
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	2.0	1.0	0.5	-0.8*	-0.3	-0.2	0.2	2.2#	-0.5#	2.5	0.1	-0.0	-1.1#	1.6	1.5	-0.3	-0.8	0.2	-0.2	-0.3
STD ERR OF DP		0.7	0.6	0.4	0.5	0.3	0.3	0.8	0.2	1.6	0.9	0.4	0.3	1.6	0.8	0.4	0.7	0.7	0.7	0.9
STD ERR OF P	0.3	0.8	0.7	0.4	0.6	0.4	0.5	0.9	0.3	1.7	1.0	0.5	0.3	1.7	0.8	0.5	0.7	0.7	0.8	0.9

EXERCISE: RE08

If 1 inch equals 25 miles on the map shown below, about how far is it between Chugwater and Wellington? Use the ruler you have been given to find the answer.

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	1.3	1.6	0.0	-0.2	-1.0*	-0.5	0.5	3.4*	-0.6*	2.3	0.6	0.0	-1.0*	0.3	0.3	-0.1	1.1	-1.3*	0.1	-0.8
STD ERR OF DP		0.9	0.4	0.5	0.3	0.3	0.3	1.2	0.2	1.3	0.6	0.5	0.3	0.4	1.4	0.4	1.3	0.3	0.8	0.6
STD ERR OF P	0.3	1.1	0.4	0.6	0.1	0.2	0.5	1.4	0.3	1.8	0.7	0.5	0.2	0.3	1.5	0.4	1.4	0.0	0.9	0.5
AGE: Ad																				
DELTA-P	4.5	1.7	-0.4	-0.9	0.0	-2.8*	2.6*	15.6*	-2.0*	2.7*	-0.1	-2.2*	-3.7*	9.9*	-0.6	-0.6	-2.2	4.3	-2.0	-3.9*
STD ERR OF DP		1.3	1.1	1.2	1.1	0.7	0.6	3.4	0.5	1.3	1.3	0.7	0.7	2.9	1.3	0.8	1.2	3.2	1.3	0.9
STD ERR OF P	0.7	1.5	1.2	1.6	1.2	0.6	1.2	3.7	0.5	1.5	1.3	0.9	0.6	3.3	1.3	1.0	1.2	3.4	1.5	0.7

RE09
OBJ IV

A gallon of asphalt paint will cover about 250 square feet of surface area. This paint is sold in gallon cans only. How many gallon cans are needed to paint a driveway 48 feet long and 10 feet wide?

ANSWER ______________________

Report #: RE09

NAPP #: E13003-34

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV, Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		05-02	02-27
National P-value:			
	RE09	40.96	61.01
Timing: (in seconds)			
	Stimulus:	15	16
	Response:	21	*
RE09	Exercise total:	36	*

*Time not limited by paced tape.

SCORING GUIDE
RE09
E13003-34

00 = No Response

10 = 2; 2 cans; about 2 cans; a little less than 2 gallons; 2 gallons

11 = 1.92 (cans); 1 23/25 (cans)

12 = Correct process with no answer or wrong answer; e.g., (48 x 10) divided by 250

20 = 480 square feet; 480

21 = 250 square feet; 250

22 = 3; 3 cans; about 3 cans; 2.92 (cans); a little less than 3 cans; 2 23/25 (cans)

23 = Other Unacceptable

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

EXERCISE: RE09

A gal. of asphalt paint will cover about 250 sq. ft. of surface area and is sold in gallon cans only. How many gal. cans are needed to paint a driveway 48 ft. long and 10 ft. wide?

RESPONSE: 00 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	5.5	0.3	-0.7	0.6	-0.3	-0.2	0.2	5.4#	-1.5#	2.1	-0.1	0.7	-1.6#	3.1	-1.2	0.7	-2.5*	1.8	-0.7	-1.3
STD ERR OF DP		1.2	1.1	1.1	1.0	0.6	0.5	1.4	0.4	1.8	1.6	0.9	0.6	2.3	1.5	0.8	1.1	2.5	1.8	1.7
STD ERR OF P	0.6	1.3	1.3	1.4	1.2	0.9	0.8	1.5	0.7	1.9	1.7	1.1	0.9	2.4	1.7	1.0	1.0	2.6	2.0	1.8
AGE: Ad																				
DELTA-P	0.6	1.2	-0.4	-0.4	-0.2	-0.1	0.1	0.2	-0.0	-0.0	-0.4	0.3	-0.2	-0.6*	0.4	-0.1	-0.1	-0.6*	1.3	-0.2
STD ERR OF DP		0.9	0.3	0.3	0.3	0.3	0.2	0.5	0.1	0.3	0.3	0.5	0.3	0.3	0.7	0.3	0.5	0.3	1.6	0.4
STD ERR OF P	0.2	1.1	0.2	0.2	0.2	0.5	0.2	0.5	0.3	0.2	0.2	0.7	0.2	0.0	0.7	0.2	0.5	0.0	1.9	0.4

RESPONSE: 01* TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	41.0	-7.1*	-1.7	3.2	3.8	7.5#	-6.5#	-25.9#	5.9#	-24.6#	-13.4#	-1.6	11.5#	-14.3#	1.5	-5.1*	5.9	1.0	5.4	11.8#
STD ERR OF DP		3.2	3.4	2.5	2.9	1.4	1.3	2.4	0.9	2.8	2.9	1.8	1.5	5.1	4.7	2.1	3.7	4.0	2.9	3.7
P-VALUE	41.0	33.9	39.2	44.2	44.7	48.5	34.5	15.1	46.8	16.3	27.6	39.3	52.5	26.7	42.4	35.9	46.8	42.0	46.4	52.8
STD ERR OF P	1.7	3.6	4.1	2.7	3.3	2.1	2.2	2.3	1.7	2.5	3.2	2.7	2.0	5.6	4.9	2.8	3.8	3.9	2.9	3.9
AGE: Ad																				
DELTA-P	61.0	-5.0	3.8	1.0	-0.8	13.5#	-12.5#	-38.1#	5.7#	-12.1#	-10.2#	3.1	19.4#	-24.8#	8.6*	0.1	-3.6	0.7	3.9	11.2#
STD ERR OF DP		2.8	2.8	2.8	2.7	1.3	1.3	3.8	0.8	2.2	2.5	1.7	1.9	4.4	4.1	1.8	5.2	5.5	4.2	3.7
P-VALUE	61.0	56.0	64.8	62.0	60.2	74.5	48.5	23.0	66.8	48.9	50.8	64.1	80.4	36.2	69.6	61.1	57.4	61.7	64.9	72.2
STD ERR OF P	1.6	2.9	3.3	3.6	2.9	1.9	2.0	3.6	1.6	2.7	2.6	2.5	1.8	4.6	4.1	2.2	5.5	5.6	4.7	4.1

RESPONSE: 10 TEXT: 2; 2 cans; about 2 cans; a little less than 2 gallons; 2 gallons

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	38.2	-5.5	-1.5	3.0	2.5	7.5#	-6.5#	-24.7#	5.6#	-22.2#	-12.7#	-1.6	10.5#	-13.5*	-2.2	-5.2#	5.9	2.0	6.4*	12.5#
STD ERR OF DP		3.0	3.2	2.5	2.9	1.5	1.3	2.3	0.9	2.8	2.7	1.8	1.5	5.4	3.9	2.0	3.4	4.2	2.8	4.0
STD ERR OF P	1.7	3.2	3.9	2.9	3.3	2.1	2.2	2.3	1.7	2.5	3.1	2.6	2.0	6.0	3.9	2.6	3.4	4.3	2.7	4.2
AGE: Ad																				
DELTA-P	59.4	-4.1	3.8	1.2	-1.9	12.7#	-11.8#	-38.8#	5.8#	-11.8#	-10.6#	3.5	18.8#	-23.6#	7.8	0.1	-2.9	-1.6	4.0	11.3#
STD ERR OF DP		2.6	2.8	2.9	2.7	1.3	1.3	3.4	0.8	2.2	2.5	1.8	1.9	4.4	4.4	1.9	5.0	5.6	4.2	3.7
STD ERR OF P	1.6	2.6	3.3	3.7	2.9	1.9	2.1	3.0	1.6	2.6	2.7	2.6	1.9	4.7	4.4	2.4	5.3	5.7	4.7	4.0

RESPONSE: 11 TEXT: 1.92 (cans); 1 and 23/25 (cans)

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	2.8	-1.6*	-0.2	0.2	1.2	0.0	-0.0	-1.1	0.3	-2.5#	-0.7	-0.0	1.1*	-0.8	3.6*	0.1	-0.1	-1.0	-0.9	-0.7
STD ERR OF DP		0.7	0.7	0.7	0.8	0.5	0.5	0.9	0.2	0.5	1.1	0.6	0.5	1.3	1.8	0.6	1.3	1.2	1.0	0.9
STD ERR OF P	0.4	0.7	0.7	0.9	1.0	0.8	0.6	0.9	0.5	0.3	1.2	0.8	0.8	1.3	2.0	0.7	1.4	1.1	1.0	0.9
AGE: Ad																				
DELTA-P	1.6	-0.9	-0.0	-0.2	1.1	0.8*	-0.7*	0.7	-0.0	-0.4	0.4	-0.4	0.6	-1.3#	0.8	-0.1	-0.7	2.2	-0.1	-0.1
STD ERR OF DP		0.5	0.5	0.5	0.7	0.3	0.3	1.5	0.2	0.5	0.8	0.3	0.6	0.4	0.9	0.3	0.5	1.8	0.7	0.8
STD ERR OF P	0.3	0.5	0.5	0.5	0.9	0.6	0.3	1.7	0.3	0.6	0.9	0.4	0.7	0.3	1.0	0.4	0.5	2.0	0.8	0.8

RESPONSE: 12 TEXT: Correct process with no answer or wrong answer; e.g., (48 x 10) divided by 250

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	5.1	-1.2	-0.6	2.3#	-1.1	0.4	-0.4	-2.8*	0.6*	-2.0	0.7	-0.5	1.0	-2.8#	3.2	0.9	-0.9	-0.3	1.8	-2.9#
STD ERR OF DP		1.0	0.7	0.8	1.0	0.6	0.5	1.1	0.3	1.2	1.4	0.5	0.5	1.1	1.9	0.8	0.8	1.6	2.1	1.0
STD ERR OF P	0.5	1.1	0.7	1.0	1.1	0.8	0.8	1.0	0.6	1.2	1.7	0.6	0.7	1.0	2.0	1.0	0.7	1.6	2.3	1.0
AGE: Ad																				
DELTA-P	1.9	-0.3	0.2	0.3	-0.3	-0.3	0.2	-1.9#	0.2*	-0.3	-0.3	0.4	0.2	-0.3	0.1	-0.3	-0.4	-0.2	0.4	1.1
STD ERR OF DP		0.5	0.7	0.6	0.7	0.4	0.4	0.4	0.1	0.6	0.7	0.6	0.6	0.9	1.1	0.5	0.8	0.9	1.4	1.5
STD ERR OF P	0.4	0.5	0.8	0.7	0.8	0.4	0.6	0.0	0.4	0.5	0.7	0.8	0.8	0.9	1.1	0.5	0.8	0.9	1.5	1.7

RESPONSE: 20 TEXT: 480; 480 square feet

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	2.0	0.4	-0.8	-0.3	0.8	-0.2	0.2	3.0#	-0.5#	0.7	-0.7	1.5#	-0.9#	-0.7	-0.2	-0.3	0.1	2.4	1.8	-1.4#
STD ERR OF DP		0.5	0.5	0.5	0.7	0.3	0.3	1.0	0.2	1.0	0.7	0.6	0.3	0.7	1.2	0.4	0.7	1.9	1.5	0.5
STD ERR OF P	0.3	0.5	0.5	0.6	0.9	0.5	0.4	1.1	0.3	1.0	0.6	0.8	0.3	0.7	1.2	0.4	0.7	2.0	1.7	0.5

EXERCISE: RE09

A gal. of asphalt paint will cover about 250 sq. ft. of surface area and is sold in gallon cans only. How many gal. cans are needed to paint a driveway 48 ft. long and 10 ft. wide?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad TEXT: 480; 480 square feet																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 21 AGE: 17 TEXT: 250; 250 square feet																				
DELTA-P	0.4	-0.2	-0.1	0.1	0.1	-0.1	0.1	-0.4**	0.1	0.3	0.2	-0.3*	0.1	0.6	-0.4**	0.2	-0.2	-0.4**	0.0	-0.4**
STD ERR OF DP		0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.6	0.4	0.1	0.2	0.6	0.1	0.2	0.2	0.1	0.3	0.1
STD ERR OF P	0.1	0.1	0.2	0.3	0.3	0.1	0.2	0.0	0.2	0.7	0.4	0.1	0.2	0.6	0.0	0.3	0.2	0.0	0.4	0.0
AGE: Ad																				
DELTA-P	0.0	0.1	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 22 AGE: 17 TEXT: 3; 3 cans; about 3 cans; 2.92 (cans); a little less than 3 cans; 2 and 23/25 (cans)																				
DELTA-P	1.8	-0.1	0.8	-0.6	0.1	-0.1	0.1	0.5	-0.2	1.7	-0.7	-0.2	-0.2	1.6	-0.2	0.1	0.2	-1.8**	0.0	-0.7
STD ERR OF DP		0.4	0.7	0.4	0.6	0.3	0.3	1.0	0.2	1.6	0.6	0.4	0.4	1.7	0.7	0.4	0.8	0.3	0.9	0.7
STD ERR OF P	0.3	0.3	0.9	0.3	0.7	0.4	0.4	1.1	0.3	1.7	0.5	0.5	0.4	1.8	0.8	0.5	0.8	0.0	1.0	0.7
AGE: Ad																				
DELTA-P	2.6	-0.3	-0.2	0.9	-0.6	-0.3	0.3	1.0	-0.1	0.7	1.8	-0.4	-1.0*	2.5	-1.3	0.1	0.9	-1.4	0.6	-1.6*
STD ERR OF DP		0.9	0.7	0.6	0.6	0.5	0.5	1.8	0.2	0.9	0.9	0.6	0.5	2.0	0.9	0.5	1.5	0.8	1.7	0.7
STD ERR OF P	0.4	1.0	0.8	0.7	0.6	0.5	0.7	2.0	0.4	1.1	1.0	0.7	0.4	2.2	0.9	0.5	1.6	0.8	1.9	0.7
RESPONSE: 23 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	21.1	4.4**	-1.9	0.3	-2.1	0.0	-0.0	9.1**	-1.9**	6.5*	5.2*	-0.1	-3.6**	4.4	2.7	0.8	-5.9**	2.7	-3.9	0.8
STD ERR OF DP		1.7	1.9	1.8	1.5	1.1	0.9	2.7	0.6	3.1	2.1	1.6	1.1	4.2	3.8	1.3	1.6	2.6	2.8	2.7
STD ERR OF P	1.0	1.8	2.2	2.3	1.6	1.4	1.4	3.1	1.0	3.1	2.3	1.9	1.5	4.6	4.0	1.7	1.5	2.5	2.9	2.9
AGE: Ad																				
DELTA-P	12.0	1.4	-2.2	0.5	0.6	-0.5	0.5	17.1**	-2.5**	4.9**	3.3*	-0.8	-6.0**	6.6*	-2.9	-0.3	2.2	-1.4	-0.2	-2.9
STD ERR OF DP		1.9	1.4	1.7	1.5	0.9	0.9	3.7	0.5	1.5	1.6	1.4	1.1	3.0	1.9	1.2	3.8	3.1	2.1	2.3
STD ERR OF P	0.9	2.2	1.6	2.2	1.6	1.5	1.1	4.0	0.8	1.8	1.6	1.8	1.3	3.1	1.7	1.4	4.3	3.3	2.2	2.3
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	23.2	3.5	5.1*	-5.6**	-1.3	-7.3**	6.3**	11.0**	-2.5**	15.3**	8.9**	0.6	-6.3**	8.2	-5.6*	2.7	3.3	-5.5	-4.5	-6.0
STD ERR OF DP		2.6	2.1	1.8	2.1	1.3	1.1	3.6	0.6	3.9	3.0	1.6	1.1	4.7	2.7	1.7	3.5	3.0	2.8	3.1
STD ERR OF P	1.3	2.9	2.5	2.1	2.5	1.5	1.8	3.7	1.4	4.2	3.1	1.9	1.5	5.0	2.6	2.2	3.8	2.8	2.9	3.2
AGE: Ad																				
DELTA-P	21.9	3.0	-1.2	-2.2	1.3	-12.3**	11.4**	21.7**	-3.3**	6.8**	5.8**	-2.6	-12.4**	16.6**	-5.0	0.4	1.1	3.1	-6.0**	-7.5**
STD ERR OF DP		2.1	1.8	1.8	2.0	1.2	1.1	4.6	0.7	1.8	2.2	1.5	1.5	3.6	3.3	1.3	3.5	4.1	2.3	2.5
STD ERR OF P	1.1	2.3	2.0	2.2	2.3	1.1	1.9	4.9	1.0	2.0	2.6	1.9	1.4	4.0	3.3	1.6	3.7	4.1	2.4	2.8

ME10
OBJ III

A square has a perimeter of 12 inches. What is its AREA in square inches?

ANSWER ____________________

Report #: ME10

NAEP #: E13008-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		04-04	08-14	06-30
National P-value:				
	ME10	6.67	28.16	26.48
Timing: (in seconds)				
	Stimulus:	7	6	6
	Response:	30	30	*
ME10	Exercise total:	37	36	*

*Time not limited by paced tape.

SCORING GUIDE
ME10
E13008-234

00 = No Response

10 = 9 square inches; 9 inches; 9;

20 = 48 square inches; 48 inches; 48

21 = 12 square inches; 12 inches; 12

22 = 144 square inches; 144 inches; 144

23 = 24 square inches; 24 inches; 24

24 = 6 square inches; 6 inches; 6

25 = Other Unacceptable

26 = 1 square foot; 1 foot; 1

27 = 3 square inches; 3 inches; 3

39 = I Don't Know.

EXERCISE: RE10

A square has a perimeter of 12 inches. What is its AREA in square inches?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.6	0.7	0.9	-0.7	-0.8	0.5	-0.5	7.6#	-1.3#	2.5	-0.8	-0.4	-1.1*	4.3*	1.4	-1.0	-0.2	1.0	-0.7	-2.7#
STD ERR OF DP		0.8	1.1	0.7	0.7	0.3	0.4	1.6	0.3	1.8	1.0	0.6	0.5	1.9	1.2	0.6	1.0	1.3	1.3	0.7
STD ERR OF P	0.5	0.9	1.3	0.8	0.8	0.7	0.5	1.9	0.4	1.8	1.1	0.8	0.7	2.1	1.2	0.6	1.1	1.4	1.5	0.6
AGE: 17																				
DELTA-P	2.4	-0.3	1.9	-0.5	-1.1	-0.2	0.2	-0.5	-0.2	0.0	-1.3*	1.2*	-0.8#	-1.2	-0.7	-1.1	-1.1	0.2	6.5	0.2
STD ERR OF DP		0.9	2.1	0.8	0.8	0.3	0.3	1.0	0.2	0.9	0.5	0.5	0.3	0.9	1.1	0.7	0.9	1.5	5.3	0.9
STD ERR OF P	0.7	0.8	2.8	0.5	0.5	0.7	0.8	0.8	0.6	1.3	0.7	1.1	0.6	0.5	1.0	0.4	0.6	1.4	5.9	0.9
AGE: Ad																				
DELTA-P	0.4	0.6	0.2	-0.2	-0.4*	-0.3	0.2	0.0	0.0	-0.3#	0.7	0.2	-0.3	-0.4*	1.8	-0.1	-0.2	0.4	-0.0	-0.4*
STD ERR OF DP		0.7	0.3	0.2	0.2	0.2	0.2	0.4	0.1	0.1	0.9	0.3	0.2	0.2	1.6	0.1	0.3	0.6	0.4	0.2
STD ERR OF P	0.2	0.9	0.3	0.1	0.0	0.1	0.4	0.4	0.2	0.1	0.7	0.3	0.1	0.0	1.8	0.2	0.2	0.6	0.4	0.0
RESPONSE: 10* AGE: 13	TEXT: 9 square inches; 9; 9 inches																			
DELTA-P	6.7	-2.5*	-1.6	0.3	3.4*	0.4	-0.4	-5.4#	1.2#	-1.4	-4.6#	-1.2	4.0#	-4.7#	-0.9	0.2	-1.2	0.9	2.2	2.2
STD ERR OF DP		1.2	0.9	1.1	1.4	0.6	0.6	1.0	0.3	1.7	1.0	0.8	0.9	1.1	2.3	1.0	1.3	1.4	2.4	2.3
P-VALUE	6.7	4.2	5.0	7.0	10.1	7.1	6.2	1.3	7.9	5.3	2.1	5.5	10.7	2.0	5.7	6.9	5.4	7.5	8.9	8.9
STD ERR OF P	0.7	1.3	0.9	1.4	1.7	1.0	0.8	0.8	0.9	1.7	1.0	0.9	1.3	0.9	2.6	1.2	1.3	1.4	2.6	2.3
AGE: 17																				
DELTA-P	28.2	-10.2#	-1.2	2.6	7.1#	2.3	-2.1	-21.8#	4.5#	-21.8#	-17.4#	-4.4*	15.0#	-18.1#	-3.1	-1.4	2.1	-1.9	5.0	14.4#
STD ERR OF DP		2.7	2.4	2.2	2.7	1.3	1.2	1.9	0.6	1.8	2.1	1.8	1.2	2.4	4.3	2.1	3.9	3.7	4.6	3.5
P-VALUE	28.2	18.0	27.0	30.7	35.3	30.5	26.1	6.4	32.7	6.3	10.8	23.7	43.2	10.1	25.1	26.7	30.3	26.2	33.2	42.6
STD ERR OF P	1.4	3.0	2.7	2.5	3.2	1.9	1.9	1.7	1.6	1.8	1.9	2.0	2.0	2.1	4.5	2.3	4.3	3.7	4.9	3.9
AGE: Ad																				
DELTA-P	26.5	-3.5	4.7*	-2.8	1.2	7.3#	-6.8#	-25.5#	4.0#	-13.9#	-6.4#	1.8	18.4#	-14.3#	-7.3#	-1.7	4.2	-5.7	-5.0	22.6#
STD ERR OF DP		2.1	2.0	1.7	2.2	1.1	1.1	1.4	0.5	1.9	2.1	2.1	2.1	2.5	2.8	1.4	2.6	3.7	3.1	3.9
P-VALUE	26.5	23.0	31.2	23.7	27.7	33.8	19.7	1.0	30.5	12.6	20.1	28.2	44.9	12.2	19.2	24.8	30.7	20.8	21.5	49.1
STD ERR OF P	1.2	2.3	2.2	1.9	2.7	1.5	1.7	1.0	1.3	1.9	2.1	2.5	2.5	2.4	2.7	1.8	2.9	3.9	3.3	4.0
RESPONSE: 20 AGE: 13	TEXT: 48 square inches; 48; 48 inches																			
DELTA-P	20.3	-2.8	-1.1	2.6	0.6	-1.8	1.9	-10.1#	2.2#	-1.6	-1.9	4.1#	0.1	-5.3	0.3	1.5	2.0	-2.8	-2.2	4.3
STD ERR OF DP		1.9	2.5	1.8	2.4	1.0	1.0	2.0	0.5	3.5	2.4	1.5	1.3	3.1	2.9	1.7	2.5	2.5	2.8	3.6
STD ERR OF P	1.3	1.9	3.1	1.9	2.9	1.6	1.6	1.8	1.5	3.6	2.6	2.1	1.9	3.2	3.2	2.1	2.5	2.6	3.2	3.9
AGE: 17																				
DELTA-P	10.4	3.1*	0.5	-1.1	-1.9	-1.0	0.9	6.5#	-1.3#	0.9	0.1	2.9*	-3.1#	3.3	2.7	0.3	-0.5	0.9	-1.1	-4.4#
STD ERR OF DP		1.3	1.4	1.5	1.2	0.9	0.8	2.1	0.4	1.9	1.6	1.2	0.7	2.6	1.8	1.3	2.0	2.5	1.6	1.4
STD ERR OF P	0.8	1.4	1.6	1.9	1.2	1.1	1.2	2.2	0.9	2.2	1.5	1.6	0.9	2.7	2.0	1.7	2.0	2.7	1.6	1.3
AGE: Ad																				
DELTA-P	9.5	-1.3	0.9	0.3	-0.2	-1.0	1.0	2.8	-0.8	2.3	2.7	-0.9	-2.8*	-2.1	-1.9	0.7	4.4	5.0*	0.7	-6.8#
STD ERR OF DP		1.4	1.2	1.6	1.2	0.8	0.8	2.7	0.4	1.4	1.9	1.3	1.4	2.1	1.7	0.9	2.7	2.4	1.9	1.2
STD ERR OF P	0.8	1.4	1.3	2.1	1.3	1.3	1.0	2.9	0.9	1.5	2.1	1.7	1.5	2.2	1.6	1.3	3.0	2.7	2.0	1.0
RESPONSE: 21 AGE: 13	TEXT: 12 square inches: 12: 12 inches																			
DELTA-P	4.0	-0.2	0.3	1.2	-1.5*	0.8	-0.8	0.8	0.1	-1.7	0.1	0.0	0.3	0.5	-0.4	0.2	-1.2	-0.6	0.4	1.2
STD ERR OF DP		0.7	0.9	1.1	0.7	0.4	0.4	1.0	0.2	1.1	1.6	0.9	0.6	1.4	1.2	1.0	0.9	1.1	1.8	2.5
STD ERR OF P	0.5	0.6	1.0	1.4	0.7	0.8	0.6	1.0	0.6	1.0	1.7	1.1	0.8	1.3	1.2	1.3	0.8	1.1	2.0	2.6
AGE: 17																				
DELTA-P	3.2	-0.8	0.2	0.7	-0.2	1.2#	-1.1#	2.0	-0.4	3.3	2.2	0.1	-1.4#	0.6	1.3	0.4	-1.6	1.3	0.3	-2.0
STD ERR OF DP		0.8	0.9	0.9	0.6	0.4	0.4	1.1	0.2	2.3	1.4	0.5	0.4	1.4	1.1	0.7	0.9	1.3	1.2	1.1
STD ERR OF P	0.5	0.9	1.0	1.1	0.6	0.8	0.4	1.2	0.5	2.4	1.6	0.6	0.5	1.5	1.1	1.0	0.9	1.3	1.2	1.1

EXERCISE: R812

A square has a perimeter of 12 inches. What is its AREA in square inches?

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad TEXT: 12 square inches; 12; 12 inches																				
DELTA-P	3.0	-0.1	-0.5	0.6	-0.2	-0.6	0.5	1.0	-0.2	1.9	-1.1	0.0	-1.4*	-0.7	-0.5	-0.6	-0.2	0.4	3.9	-1.0
STD ERR OF DP		0.8	0.7	1.0	0.9	0.4	0.4	1.9	0.2	1.2	1.0	0.7	0.7	1.0	0.8	0.6	1.5	1.5	2.6	1.1
STD ERR OF P	0.5	0.8	0.7	1.3	1.0	0.5	0.7	2.1	0.6	1.5	1.0	0.9	0.6	1.0	0.7	0.5	1.5	1.7	2.9	1.2
RESPONSE: 22 AGE: 13 TEXT: 144 square inches; 144; 144 inches																				
DELTA-P	11.8	-4.9*	-0.8	0.8	3.9*	2.2*	-2.3*	-9.2*	2.1*	-6.5*	-3.1	-1.7	5.8*	-6.8*	-3.1	1.0	-0.3	2.7	2.2	0.8
STD ERR OF DP		1.4	1.2	1.4	1.9	0.8	0.8	1.1	0.3	2.0	1.8	1.1	1.1	1.8	1.9	1.3	2.5	2.6	1.9	3.8
STD ERR OF P	0.9	1.5	1.3	1.6	2.4	1.2	1.2	1.0	1.0	1.9	1.9	1.3	1.6	1.9	1.9	1.4	2.5	2.8	2.1	4.2
AGE: 17																				
DELTA-P	19.1	-2.7	1.5	-0.6	1.6	1.8	-1.6	-8.1*	1.5*	-3.8	-4.7*	0.9	0.7	-1.6	-2.2	2.3	0.3	-1.3	-7.6*	3.5
STD ERR OF DP		1.9	1.6	1.5	1.9	1.0	0.9	1.9	0.5	2.8	1.9	1.5	1.2	3.3	2.4	1.2	2.9	5.1	2.5	2.7
STD ERR OF P	1.0	2.1	1.8	1.7	2.3	1.5	1.3	1.9	1.1	3.1	2.0	1.9	1.5	3.5	2.5	1.3	3.2	5.3	2.4	3.1
AGE: Ad																				
DELTA-P	24.9	-3.2	-1.3	3.0	0.5	2.2	-2.1	-10.8*	1.8*	-0.7	-3.0	1.7	-0.4	-0.0	1.9	2.6	-8.0*	2.2	-1.9	-1.8
STD ERR OF DP		2.3	2.7	1.8	2.2	1.1	1.0	2.7	0.5	1.9	2.1	1.9	2.0	4.2	3.6	1.4	2.5	4.8	2.5	3.4
STD ERR OF P	1.3	2.5	3.3	1.9	2.6	1.8	1.5	2.9	1.3	2.2	2.5	2.0	2.5	4.4	3.7	1.8	2.6	5.1	2.7	3.8
RESPONSE: 23 AGE: 13 TEXT: 24 square inches; 24; 24 inches																				
DELTA-P	6.2	0.3	-1.1	0.6	0.3	-0.8	0.8	-1.6	0.5	-0.7	0.9	-0.3	-0.3	-3.6*	0.7	3.3*	-2.9*	-1.6	-0.4	-2.5
STD ERR OF DP		0.8	1.1	0.9	0.9	0.5	0.5	1.6	0.3	1.5	1.9	0.8	0.7	1.0	1.9	1.0	1.1	1.3	1.1	1.4
STD ERR OF P	0.5	0.9	1.4	1.0	0.9	0.6	0.9	1.5	0.7	1.6	1.9	0.9	0.9	0.9	2.1	1.2	1.2	1.5	1.1	1.4
AGE: 17																				
DELTA-P	4.4	2.7*	0.4	-1.7*	-0.9	0.9	-0.8	2.4	-0.5	0.8	1.8	0.4	-1.2*	-0.4	-1.5	0.3	0.5	0.0	1.1	-0.8
STD ERR OF DP		0.9	0.9	0.7	0.8	0.6	0.6	1.5	0.3	1.8	1.4	0.7	0.6	1.3	1.3	0.7	1.6	2.0	2.3	1.1
STD ERR OF P	0.5	1.0	1.0	0.7	1.0	0.8	0.6	1.6	0.5	1.9	1.4	0.8	0.7	1.2	1.3	0.8	1.7	2.1	2.5	1.2
AGE: Ad																				
DELTA-P	2.2	-1.0*	0.1	0.3	0.4	-0.3	0.3	1.7	-0.5*	0.8	-0.7	-0.9	0.1	2.2	0.2	-0.2	-0.6	0.1	0.7	-1.2
STD ERR OF DP		0.5	0.5	0.5	0.6	0.4	0.4	1.4	0.2	0.6	0.6	0.5	0.6	1.4	1.1	0.4	0.8	1.2	1.0	0.6
STD ERR OF P	0.3	0.5	0.6	0.6	0.8	0.4	0.5	1.5	0.3	0.7	0.7	0.5	0.7	1.5	1.1	0.5	0.8	1.3	1.1	0.6
RESPONSE: 24 AGE: 13 TEXT: 6 square inches; 6; 6 inches																				
DELTA-P	4.2	2.9*	0.3	-2.1*	-0.4	-0.8	0.8	5.4*	-0.9*	1.5	2.5	0.9	-1.6*	2.0	1.2	0.2	-0.4	-0.4	-1.7	-0.4
STD ERR OF DP		1.0	0.7	0.6	1.0	0.5	0.5	1.5	0.3	1.8	1.4	0.7	0.5	1.8	1.2	0.7	1.0	1.4	1.0	1.4
STD ERR OF P	0.5	1.2	0.7	0.6	1.3	0.7	0.7	1.6	0.5	2.0	1.5	1.0	0.5	1.8	1.2	1.0	1.1	1.5	1.0	1.4
AGE: 17																				
DELTA-P	2.4	1.3	-1.0*	-0.2	0.0	-0.9*	0.8*	3.0*	-0.4*	2.5	-0.1	0.2	-0.9*	0.8	1.5	-0.2	1.0	0.1	-0.3	-2.2*
STD ERR OF DP		0.7	0.5	0.5	0.6	0.4	0.3	0.9	0.2	1.6	0.6	0.6	0.4	1.2	1.6	0.4	1.0	1.4	1.0	0.4
STD ERR OF P	0.3	0.9	0.5	0.6	0.7	0.4	0.6	1.0	0.4	1.7	0.7	0.7	0.4	1.3	1.8	0.5	1.1	1.4	1.0	0.2
AGE: Ad																				
DELTA-P	1.3	-0.5	1.1	0.1	-0.8*	0.1	-0.1	2.5	-0.3	0.3	0.1	0.3	-0.6	0.1	-0.9*	-0.4	-0.2	1.1	2.2	-0.8
STD ERR OF DP		0.5	0.6	0.5	0.4	0.3	0.3	1.3	0.2	0.5	0.7	0.5	0.3	0.9	0.4	0.3	0.6	1.5	1.1	0.5
STD ERR OF P	0.3	0.5	0.8	0.6	0.3	0.4	0.4	1.4	0.3	0.6	0.7	0.7	0.4	0.9	0.3	0.4	0.7	1.6	1.2	0.5
RESPONSE: 25 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	13.2	-0.8	-2.8*	0.9	2.5	2.0*	-2.1*	3.6	-0.7	-0.4	-1.5	-0.4	1.4	-0.7	-1.9	-1.5	2.1	3.1	-0.7	2.9
STD ERR OF DP		1.2	1.2	1.5	1.5	0.7	0.8	2.3	0.4	2.7	2.6	1.1	0.9	2.3	1.6	1.1	2.4	2.4	2.2	2.4
STD ERR OF P	0.8	1.2	1.3	1.8	1.9	1.2	0.9	2.5	0.9	2.9	2.7	1.4	1.2	2.4	1.5	1.3	2.6	2.4	2.6	2.5

EXERCISE: RE10

A square has a perimeter of 12 inches. What is its AREA in square inches?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 25 AGE: 17	TEXT: Other Unacceptable																			
DELTA-P	10.9	1.3	-0.6	-1.2	0.8	1.0	-0.9	1.8	-0.2	6.4	5.4*	-0.8	-1.8*	1.3	3.1	-0.0	-0.0	-3.5	-0.3	-0.9
STD ERR OF DP		1.7	1.4	1.3	1.4	0.9	0.8	2.4	0.4	4.0	1.6	1.1	0.9	3.6	3.2	1.0	2.0	2.8	2.0	1.8
STD ERR OF P	0.8	2.0	1.5	1.6	1.6	1.2	1.1	2.6	0.9	4.2	1.6	1.3	1.1	3.8	3.5	1.1	1.9	3.0	2.2	1.9
AGE: Ad																				
DELTA-P	9.5	1.1	-0.4	0.3	-0.8	-0.3	0.3	1.4	-0.5	-1.8	0.6	1.1	0.6	0.1	6.9*	-0.7	1.5	-1.8	-1.5	-0.8
STD ERR OF DP		1.3	1.3	1.4	1.3	0.8	0.7	2.9	0.4	1.0	1.8	1.3	1.3	2.3	2.6	1.0	3.0	2.2	2.3	2.2
STD ERR OF P	0.8	1.3	1.4	1.8	1.5	1.1	1.1	3.0	0.9	1.1	1.9	1.6	1.7	2.4	2.6	1.0	3.3	2.4	2.5	2.5
RESPONSE: 26 AGE: 13	TEXT: 1 foot; 1 square foot; 1																			
DELTA-P	2.1	-0.3	1.2	-0.8	-0.1	0.7	-0.7	0.4	-0.8*	5.3*	0.6	-0.8	-1.0*	-0.5	-0.4	0.6	0.6	1.0	-1.1	-1.5*
STD ERR OF DP		0.5	0.6	0.5	0.8	0.4	0.4	0.8	0.3	2.3	1.3	0.5	0.4	1.0	0.8	0.6	1.3	1.2	0.6	0.5
STD ERR OF P	0.4	0.5	0.7	0.6	1.0	0.6	0.4	0.9	0.4	2.4	1.4	0.6	0.4	1.0	0.7	0.9	1.4	1.2	0.6	0.4
AGE: 17																				
DELTA-P	0.5	0.4	-0.3	-0.2	0.2	0.2	-0.2	1.9*	-0.3*	-0.2	1.1	-0.5*	-0.3	1.5	-0.3	0.0	0.3	-0.5*	-0.6*	-0.6*
STD ERR OF DP		0.3	0.2	0.2	0.3	0.2	0.2	0.7	0.1	0.4	0.6	0.2	0.2	0.9	0.3	0.2	0.4	0.2	0.2	0.2
STD ERR OF P	0.2	0.4	0.2	0.3	0.4	0.3	0.2	0.8	0.1	0.4	0.7	0.1	0.2	1.0	0.2	0.3	0.4	0.1	0.0	0.0
AGE: Ad																				
DELTA-P	0.5	-0.4	0.4	-0.1	0.1	0.6*	-0.5*	0.1	-0.1	-0.3	0.4	0.5	-0.4	0.5	-0.5*	-0.3	0.5	-0.5*	-0.5*	1.1
STD ERR OF DP		0.3	0.7	0.3	0.4	0.3	0.3	0.5	0.1	0.3	0.6	0.6	0.3	0.7	0.3	0.3	0.8	0.3	0.3	1.4
STD ERR OF P	0.3	0.1	0.9	0.3	0.4	0.5	0.0	0.5	0.3	0.2	0.7	0.8	0.1	0.7	0.0	0.2	0.9	0.0	0.0	1.6
RESPONSE: 27 AGE: 13	TEXT: 3; 3 square inches; 3 inches																			
DELTA-P	3.3	-0.0	0.8	-0.5	-0.3	0.5	-0.5	-0.7	-0.3	-1.7*	-1.6	0.3	-0.2	0.4	0.8	-0.7	0.3	0.9	-1.4	2.2
STD ERR OF DP		0.7	0.9	0.8	0.7	0.5	0.5	1.0	0.3	0.8	0.8	0.7	0.7	1.1	1.3	0.6	0.9	1.9	0.9	2.1
STD ERR OF P	0.5	0.7	1.1	1.0	0.8	0.7	0.6	0.8	0.5	0.7	0.7	0.9	0.8	1.2	1.4	0.8	1.0	2.2	0.8	2.2
AGE: 17																				
DELTA-P	1.8	1.2*	0.5	-0.5	-1.0*	-0.5	0.5	1.9*	-0.4*	-0.4	1.0	-0.1	-0.2	1.2	0.6	-1.0*	-0.4	-0.3	2.6*	-0.2
STD ERR OF DP		0.6	0.4	0.4	0.4	0.3	0.3	0.8	0.1	0.7	0.9	0.4	0.3	1.1	0.6	0.3	0.6	1.0	1.2	0.8
STD ERR OF P	0.3	0.7	0.5	0.4	0.4	0.3	0.4	0.9	0.2	0.7	1.0	0.5	0.3	1.2	0.6	0.3	0.6	1.0	1.3	0.8
AGE: Ad																				
DELTA-P	2.0	-0.0	-1.2*	0.6	0.6	0.5	-0.5	2.4	-0.2	0.4	2.8*	-0.4	-1.4*	0.4	-0.9	-0.3	0.1	2.8	1.0	-1.6*
STD ERR OF DP		0.6	0.5	0.7	0.7	0.4	0.4	1.6	0.2	0.9	1.2	0.6	0.4	1.0	0.8	0.5	1.2	2.5	1.2	0.5
STD ERR OF P	0.4	0.6	0.4	0.9	0.8	0.7	0.4	1.7	0.4	1.0	1.4	0.6	0.4	1.0	0.7	0.6	1.3	2.7	1.2	0.4
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	24.5	7.5*	4.0	-2.3	-7.6*	-3.7*	4.0*	9.1*	-2.1*	4.6	9.4*	-0.6	-7.5*	14.4*	2.4	-3.9*	1.2	-4.3	3.3	-6.4
STD ERR OF DP		1.9	2.2	2.4	1.5	1.2	1.2	2.6	0.5	3.2	3.0	1.5	1.2	3.1	2.4	1.8	3.5	3.3	4.8	3.9
STD ERR OF P	1.2	2.0	2.6	3.1	1.3	1.7	1.8	2.7	1.4	3.6	3.3	2.2	1.5	2.9	2.1	1.9	3.6	3.6	5.5	3.9
AGE: 17																				
DELTA-P	16.7	4.1*	-2.0	2.7	-4.6*	-4.7*	4.2*	10.8*	-2.3*	12.3*	11.8*	0.1	-5.9*	12.4*	-1.3	0.4	-0.6	5.0	-5.6*	-7.2*
STD ERR OF DP		1.5	1.4	1.5	1.6	0.7	0.7	2.8	0.5	3.3	2.7	1.3	1.1	3.3	2.6	1.2	2.4	3.7	2.1	2.0
STD ERR OF P	0.9	1.6	1.6	1.9	2.0	1.0	1.2	3.0	1.0	3.5	2.9	1.6	1.3	3.4	2.8	1.4	2.5	4.0	2.1	2.0
AGE: Ad																				
DELTA-P	20.1	8.2*	-4.0*	-1.9	-0.5	-8.3*	7.7*	22.4*	-3.1*	11.2*	4.0	-3.3*	-11.9*	14.1*	1.2	1.0	-1.6	-4.0	0.5	-9.4*
STD ERR OF DP		2.4	2.0	2.3	1.7	1.0	0.9	3.5	0.7	1.5	2.5	1.4	1.7	3.3	4.2	1.8	3.0	3.2	3.4	2.3
STD ERR OF P	1.2	2.6	2.3	2.9	1.7	1.5	1.6	3.7	1.2	2.1	3.1	1.6	1.4	3.2	4.3	2.3	2.9	3.5	3.7	2.4

RE11
OBJ IV

A man bought two pounds of cheese in eight-ounce packages. How many packages did he buy?

ANSWER ____________________

Report #: RE11

NAEP #: E14007-34

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:	17	Adult
Package-Exercise:	09-08	05-09
National P-value:		
RE11	80.73	85.66
Timing: (in seconds)		
Stimulus:	6	6
Response:	20	*
RE11 Exercise total:	26	*

*Time not limited by paced tape.

SCORING GUIDE
RE11
E14007-34

00 = No Response

10 = 4; 4 packages

11 = Correct process with wrong answer or no answer; e.g., (2 x 16) divided by 8 = X

20 = 10; 10 packages

21 = 3; 3 packages

22 = 8; 8 packages

23 = Other Unacceptable

24 = 2

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

EXERCISE: RE11

A man bought two pounds of cheese in eight-ounce packages. How many packages did he buy?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.9	0.1	0.4	0.0	-0.4	0.1	-0.1	1.3	-0.2	0.3	0.4	0.4	-0.6*	0.8	1.3*	-0.1	-0.6	0.9	-0.3	-0.9#
STD ERR OF DP		0.3	0.6	0.4	0.3	0.3	0.2	0.7	0.2	0.3	0.9	0.4	0.3	0.9	0.6	0.4	0.3	1.0	0.6	0.2
STD ERR OF P	0.2	0.3	0.7	0.5	0.2	0.3	0.3	0.8	0.2	0.1	1.0	0.6	0.2	1.0	0.6	0.4	0.3	1.1	0.7	0.0
AGE: Ad																				
DELTA-P	0.2	0.7	-0.2	-0.2	-0.2	-0.2	0.2	1.5	-0.2	0.5	-0.2	-0.2	-0.2	-0.2	-0.2	0.3	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.7	0.2	0.2	0.2	0.2	0.2	1.5	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2
STD ERR OF P	0.2	0.8	0.0	0.0	0.0	0.0	0.3	1.6	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 17 TEXT: 4; 4 packages (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	80.7	-5.5	-2.1	1.5	4.7#	1.8	-1.6	-19.8#	4.9#	-17.8#	-10.2#	-0.5	8.3#	-15.8#	-0.1	2.0	0.4	2.5	-3.7	8.9#
STD ERR OF DP		2.8	1.7	1.4	1.7	1.0	1.0	3.3	0.6	3.2	3.1	1.5	1.1	4.1	2.7	1.5	2.6	2.4	4.5	2.1
P-VALUE	80.7	75.2	78.6	82.2	85.4	82.5	79.1	61.0	85.6	62.9	70.5	80.2	89.0	64.9	80.6	82.8	81.1	83.2	77.1	89.6
STD ERR OF P	1.1	3.4	1.8	1.3	1.9	1.6	1.3	3.6	0.9	3.2	3.4	2.1	1.0	4.2	2.7	1.5	2.6	2.6	5.1	2.0
AGE: Ad																				
DELTA-P	85.7	-1.6	-1.2	3.3*	-1.1	0.1	-0.1	-24.7#	4.7#	-8.7#	0.0	3.8#	4.6#	-13.9#	0.0	2.0	4.3	-2.1	0.4	1.3
STD ERR OF DP		2.2	1.8	1.4	1.5	1.0	0.9	3.2	0.8	1.9	2.4	1.5	1.6	3.6	2.8	1.1	2.3	3.3	2.6	2.8
P-VALUE	85.7	84.1	84.4	89.0	84.6	85.7	85.6	61.0	90.4	77.0	85.7	89.5	90.2	71.8	85.7	87.6	90.0	83.6	86.0	87.0
STD ERR OF P	1.0	2.6	2.2	1.6	1.6	1.4	1.4	3.3	0.8	2.5	2.7	1.4	1.6	3.8	2.9	1.4	2.3	3.6	2.7	2.9
RESPONSE: 11 AGE: 17 TEXT: Correct process with wrong answer or no answer; e.g., (2 x 16) divided by 8 = X																				
DELTA-P	0.1	0.1	-0.1	-0.0	0.0	0.1	-0.1	-0.1	0.0*	0.3	-0.1	-0.0	-0.0	0.3	-0.1	-0.0	-0.1	-0.1	-0.1	0.1
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.3	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.2
STD ERR OF P	0.1	0.2	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.4	0.0	0.1	0.1	0.4	0.0	0.1	0.0	0.0	0.0	0.2
AGE: Ad																				
DELTA-P	0.3	-0.2	-0.3	-0.1	0.6	0.2	-0.2	1.8	-0.2	-0.1	0.6	-0.1	-0.1	2.1	-0.3	-0.3	-0.0	-0.3	-0.3	0.2
STD ERR OF DP		0.2	0.2	0.2	0.5	0.2	0.2	1.3	0.2	0.2	0.8	0.2	0.3	1.5	0.2	0.2	0.3	0.2	0.2	0.5
STD ERR OF P	0.2	0.1	0.0	0.3	0.6	0.4	0.1	1.5	0.1	0.2	1.0	0.1	0.3	1.7	0.0	0.0	0.3	0.0	0.0	0.6
RESPONSE: 20 AGE: 17 TEXT: 10; 10 packages;																				
DELTA-P	0.4	0.3	0.5#	-0.3#	-0.3#	-0.2*	0.2#	0.7	-0.2*	0.8	1.7#	-0.4#	-0.3#	-0.4#	0.9	-0.4#	0.4	-0.4#	-0.3*	0.8#
STD ERR OF DP		0.3	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.4	0.5	0.1	0.1	0.1	0.5	0.1	0.5	0.1	0.1	0.3
STD ERR OF P	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.6	0.0	0.5	0.6	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.1	0.3
AGE: Ad																				
DELTA-P	0.1	0.0	-0.1	-0.1	0.2	-0.1	0.1	0.8	-0.1	-0.1	0.1	-0.1	0.2	0.1	-0.1	-0.1	-0.1	0.7	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.6	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.7	0.1	0.1
STD ERR OF P	0.1	0.1	0.0	0.0	0.3	0.0	0.1	0.7	0.0	0.0	0.1	0.0	0.3	0.2	0.0	0.0	0.0	0.8	0.0	0.0
RESPONSE: 21 AGE: 17 TEXT: 3; 3 packages																				
DELTA-P	1.7	1.3	-0.8	-0.3	-0.0	-0.0	0.0	-0.1	0.1	1.3	-0.9	0.0	-0.4	-0.2	-1.1*	0.2	1.0	-1.4#	0.8	-0.5
STD ERR OF DP		0.9	0.4	0.4	0.4	0.4	0.3	0.7	0.1	1.4	0.5	0.3	0.3	0.7	0.5	0.4	1.1	0.4	1.2	0.8
STD ERR OF P	0.3	1.1	0.4	0.5	0.4	0.5	0.4	0.8	0.4	1.4	0.5	0.5	0.3	0.7	0.4	0.5	1.2	0.2	1.3	0.8
AGE: Ad																				
DELTA-P	0.7	-0.5	0.8	0.0	-0.3	0.0	-0.0	1.1	-0.2*	-0.0	0.9	-0.2	-0.3	0.8	-0.6*	-0.2	0.1	-0.2	0.7	-0.2
STD ERR OF DP		0.3	0.6	0.3	0.3	0.2	0.2	0.7	0.1	0.3	0.7	0.3	0.3	0.6	0.3	0.3	0.6	0.6	0.7	0.4
STD ERR OF P	0.2	0.2	0.8	0.2	0.3	0.4	0.3	0.7	0.3	0.4	0.8	0.3	0.4	0.6	0.2	0.4	0.6	0.6	0.8	0.5
RESPONSE: 22 AGE: 17 TEXT: 8; 8 packages																				
DELTA-P	2.1	-0.4	-0.2	-0.1	0.7	1.0*	-1.0*	-0.1	-0.1	-0.4	2.9	-0.3	-0.9*	2.3	-0.8	-0.2	-1.4#	-0.1	0.8	-0.5
STD ERR OF DP		0.6	0.7	0.6	0.9	0.4	0.4	0.7	0.2	0.9	2.3	0.5	0.4	2.4	0.9	0.5	0.6	1.2	0.9	1.0
STD ERR OF P	0.4	0.6	0.7	0.7	1.1	0.8	0.3	0.8	0.5	0.9	2.5	0.5	0.4	2.7	0.9	0.5	0.5	1.2	0.9	1.0

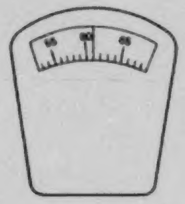
EXERCISE: RE11

A man bought two pounds of cheese in eight-ounce packages. How many packages did he buy?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 22 AGE: Ad TEXT: 8; 9 packages																				
DELTA-P	2.1	-0.7	-0.4	-0.3	1.4	1.4*	-1.3*	0.4	-0.4	1.0	-1.1	-0.3	0.2	-0.2	0.7	-0.3	-1.4*	-0.7	-0.9	2.9
STD ERR OF DP		0.7	0.7	0.6	1.0	0.5	0.5	1.3	0.4	1.0	0.6	0.5	0.7	1.0	1.7	0.5	0.6	1.0	0.8	2.3
STD ERR OF P	0.5	0.7	0.7	0.7	1.3	0.9	0.3	1.2	0.4	1.3	0.5	0.5	0.8	0.9	1.7	0.5	0.5	1.0	0.8	2.6
RESPONSE: 23 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	5.1	0.9	1.1	0.1	-1.8*	-0.7	0.7	9.1*	-2.2*	2.6	1.4	0.5	-2.0*	5.9*	-1.4	-0.6	-0.0	1.1	0.7	-3.4*
STD ERR OF DP		0.8	0.6	0.8	0.6	0.5	0.4	1.9	0.4	2.0	1.1	0.7	0.5	2.0	0.9	0.6	1.1	1.2	1.5	0.7
STD ERR OF P	0.4	0.8	0.7	1.0	0.6	0.6	0.6	2.0	0.3	2.1	1.2	0.8	0.5	2.1	0.9	0.7	1.2	1.3	1.5	0.7
AGE: Ad																				
DELTA-P	3.8	1.0	0.9	-1.4*	-0.2	-0.8	0.7	8.1*	-1.6*	1.5	0.9	-0.4	-1.7*	6.9*	0.9	-1.0	-3.1*	3.0	0.2	-1.0
STD ERR OF DP		0.9	1.0	0.7	0.9	0.5	0.5	2.4	0.4	1.0	1.8	0.8	0.8	2.7	1.8	0.5	0.7	2.9	1.2	1.0
STD ERR OF P	0.5	1.0	1.2	0.6	1.1	0.7	0.7	2.6	0.4	1.2	1.6	0.9	0.7	2.8	1.9	0.6	0.4	3.1	1.2	1.1
RESPONSE: 24 AGE: 17 TEXT: 2																				
DELTA-P	4.5	1.0	0.7	0.0	-1.4	-0.5	0.5	8.1*	-1.1*	5.5*	0.9	1.1	-1.8*	1.5	1.9	-0.6	0.4	-0.6	1.4	-2.2
STD ERR OF DP		1.1	1.0	0.6	0.9	0.5	0.4	1.2	0.3	2.1	1.0	0.9	0.4	1.7	1.4	0.6	0.9	1.2	1.6	1.1
STD ERR OF P	0.5	1.3	1.3	0.5	0.8	0.6	0.7	1.4	0.4	2.3	0.9	1.1	0.5	1.8	1.4	0.6	0.9	1.2	1.8	1.3
AGE: Ad																				
DELTA-P	4.4	0.9	0.1	-0.6	-0.3	-1.1*	1.0*	4.8*	-1.0*	3.2*	-1.4	-1.4*	-1.0	1.4	-1.4	-0.3	1.3	0.1	0.5	-1.0
STD ERR OF DP		0.9	0.8	0.8	0.8	0.5	0.4	1.7	0.3	0.8	1.0	0.7	0.9	1.3	1.2	0.6	1.8	1.6	1.5	1.3
STD ERR OF P	0.5	1.0	0.9	1.0	1.0	0.6	0.8	1.9	0.5	1.1	1.0	0.7	1.0	1.2	1.1	0.8	2.0	1.7	1.6	1.4
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	4.5	2.3*	0.5	-0.9	-1.4	-1.5*	1.4*	4.9*	-1.2*	7.6*	3.9*	-0.8	-2.3*	5.6*	-0.6	-0.4	-0.1	-1.9	0.6	-2.3*
STD ERR OF DP		0.9	0.9	0.8	0.8	0.4	0.4	1.6	0.3	1.9	1.4	0.8	0.5	1.8	1.0	0.6	0.9	1.2	1.6	1.0
STD ERR OF P	0.5	1.0	1.1	1.0	0.8	0.5	0.7	1.7	0.5	2.0	1.7	0.9	0.5	1.9	1.0	0.7	0.8	1.3	1.8	1.1
AGE: Ad																				
DELTA-P	2.8	0.4	0.5	-0.7	-0.1	0.4	-0.4	6.3*	-1.1*	2.8*	0.1	-1.2	-1.8*	3.0	1.0	-0.1	-1.0	-0.4	-0.3	-1.2
STD ERR OF DP		1.0	0.9	0.8	0.7	0.5	0.4	2.3	0.4	0.9	1.1	0.6	0.6	2.0	1.1	0.5	1.0	1.2	1.0	1.2
STD ERR OF P	0.5	1.1	1.1	0.9	0.8	0.7	0.6	2.5	0.4	1.2	1.3	0.7	0.5	2.2	1.2	0.7	1.1	1.4	1.1	1.3

RE12
OBJ II

A person is standing on the scale below weighing himself. How much does he weigh?



- ○ 59 pounds
- ● 61 pounds
- ○ 62 pounds
- ○ 63 pounds

- ○ I don't know.

Report #: RE12

NAEP #: E14012-12

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age:		9	13
Package-Exercise:		02-33	04-16
National P-value:			
	RE12	80.03	91.02

Timing: (in seconds)

	Stimulus:	15	14
	Response:	15	16
	I don't know:	5	5
	Pause:	6	6
RE12	Exercise total:	41	41

EXERCISE: RE12

A person is standing on the scale below weighing himself. How much does he weigh? (drawing of scale that shows the weight)

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.8	-0.7	1.9	-0.7	-0.2	0.0	-0.0	0.3	-0.3	-0.8	-0.8	0.3	-0.0	5.9	-0.8	-0.8	-0.5	-0.2	-0.8	-0.8
STD ERR OF DP		0.6	1.8	0.6	0.6	0.2	0.2	0.7	0.1	0.6	0.6	0.5	0.3	4.6	0.6	0.6	0.6	0.8	0.6	0.6
STD ERR OF P	0.6	0.1	2.4	0.2	0.4	0.5	0.7	0.6	0.5	0.0	0.0	0.6	0.8	5.1	0.0	0.1	0.3	0.6	0.0	0.0
AGE: 13																				
DELTA-P	0.1	0.1	0.1	-0.1	-0.1	-0.1	0.1	0.5	-0.1	-0.1	-0.1	-0.1	-0.1	0.3	0.2	-0.0	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.4	0.2	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0
RESPONSE: 01 AGE: 9 TEXT: 59 pounds																				
DELTA-P	2.5	1.9#	-0.4	-1.1#	-0.3	-0.2	0.2	3.3#	-0.6#	6.0#	-0.1	-0.0	-0.6	0.6	1.1	0.7	-0.2	2.4	-1.9#	-2.2#
STD ERR OF DP		0.5	0.6	0.4	0.4	0.4	0.4	1.1	0.2	2.1	1.2	0.7	0.5	0.7	1.2	0.5	0.8	1.6	0.5	0.4
STD ERR OF P	0.3	0.5	0.7	0.5	0.5	0.4	0.5	1.2	0.3	2.1	1.2	0.7	0.6	[illegible]	1.3	0.5	0.9	1.7	0.4	0.3
AGE: 13																				
DELTA-P	0.8	0.1	1.3#	-0.7#	-0.7#	0.2	-0.2	1.3	-0.5#	0.0	-0.3	0.1	-0.3	1.0	0.1	0.1	0.5	0.0	-0.8#	-0.8#
STD ERR OF DP		0.4	0.5	0.2	0.2	0.2	0.2	0.7	0.2	0.5	0.3	0.3	0.2	1.1	0.6	0.3	0.8	0.6	0.2	[illegible]
STD ERR OF P	0.2	0.5	0.6	0.1	0.1	0.3	0.2	0.8	0.2	0.5	0.3	0.4	0.2	1.1	0.6	0.4	0.8	0.6	0.0	0.0
RESPONSE: 02* AGE: 9 TEXT: 61 pounds																				
DELTA-P	80.0	-6.3#	1.7	-0.1	4.4#	2.3	-2.2#	-12.9#	2.9#	-13.1#	0.9	0.4	3.7#	-12.6#	-4.6	-2.1	1.0	-3.7	8.6#	10.8#
STD ERR OF DP		1.5	2.2	1.4	1.4	0.9	0.8	2.8	0.6	3.5	3.7	1.7	1.3	4.5	3.4	1.5	2.2	3.4	2.1	1.9
P-VALUE	80.0	73.8	81.7	79.9	84.4	82.3	77.9	67.1	82.9	66.9	80.9	80.4	83.7	67.4	75.5	77.9	81.0	76.3	88.6	90.8
STD ERR OF P	1.0	1.7	2.7	1.4	1.6	1.3	1.3	3.0	1.0	3.6	3.8	1.9	1.7	4.9	3.7	1.5	2.4	3.5	2.2	1.9
AGE: 13																				
DELTA-P	91.0	-1.0	-0.6	0.8	0.5	-0.8	0.8	-4.3*	0.6	0.1	-0.5	0.5	0.7	-3.4	-3.0	-0.2	0.1	1.2	1.2	4.9#
STD ERR OF DP		1.2	1.1	1.0	1.1	0.7	0.7	2.0	0.4	1.5	1.8	1.0	0.7	2.4	1.7	1.0	1.2	1.4	1.6	1.4
P-VALUE	91.0	90.1	90.4	91.9	91.5	90.2	91.9	86.8	91.6	91.1	90.5	91.5	91.7	87.6	88.0	90.9	91.1	92.3	92.3	95.9
STD ERR OF P	0.6	1.3	1.2	1.2	1.3	1.0	0.9	2.2	0.7	1.6	2.0	1.1	1.0	2.5	1.8	1.2	1.3	1.5	1.7	1.3
RESPONSE: 03 AGE: 9 TEXT: 62 pounds																				
DELTA-P	8.2	1.3	-3.2#	2.9#	-1.3	-0.6	0.6	0.1	0.2	3.2	0.6	0.7	-0.0	-2.0	1.4	1.1	1.2	4.1	-2.0	-3.3
STD ERR OF DP		1.3	1.0	1.1	1.0	0.5	0.5	1.3	0.3	2.9	2.7	0.8	1.1	1.5	2.5	0.9	2.1	3.6	1.2	1.7
STD ERR OF P	0.7	1.5	1.1	1.4	1.1	0.9	0.8	1.3	0.8	2.9	2.8	1.2	1.2	1.4	2.8	1.0	2.4	3.8	1.1	1.6
AGE: 13																				
DELTA-P	6.7	-0.9	-0.6	0.6	0.7	0.8	-0.8	-1.2	0.6*	-2.1	-0.7	-0.1	0.6	-0.0	0.8	0.4	-0.0	-0.6	0.3	-2.9*
STD ERR OF DP		1.0	1.0	0.9	1.0	0.6	0.6	1.2	0.3	1.5	1.5	0.8	0.7	1.5	1.2	0.8	1.3	1.4	1.4	1.4
STD ERR OF P	0.6	1.0	1.1	1.1	1.2	0.9	0.8	1.3	0.7	1.5	1.6	0.9	1.0	1.6	1.3	1.0	1.3	1.5	1.6	1.4
RESPONSE: 04 AGE: 9 TEXT: 63 pounds																				
DELTA-P	4.9	1.9*	0.3	-0.3	-1.7*	-0.5	0.5	7.4#	-1.9#	2.7	1.7	-0.5	-0.9	7.1#	0.7	0.4	-1.0	-1.9	-2.1*	-3.0#
STD ERR OF DP		0.9	1.1	0.8	0.7	0.6	0.6	1.3	0.3	2.4	2.4	0.9	0.7	1.3	1.4	0.9	1.5	1.2	1.0	0.7
STD ERR OF P	0.5	1.0	1.3	0.9	0.7	0.7	0.8	1.4	0.5	2.4	2.4	1.1	0.9	1.4	1.3	1.1	1.7	1.2	1.0	0.6
AGE: 13																				
DELTA-P	0.9	0.9	-0.1	-0.6*	-0.0	0.0	-0.0	2.7#	-0.5#	1.3	1.6	-0.5*	-0.5*	1.8	1.2	-0.4	-0.1	0.2	-0.6	-0.9#
STD ERR OF DP		0.5	0.4	0.3	0.4	0.2	0.2	1.0	0.2	0.9	1.1	0.2	0.2	1.0	0.8	0.3	0.4	0.6	0.4	0.2
STD ERR OF P	0.2	0.6	0.5	0.3	0.5	0.3	0.3	1.2	0.2	1.0	1.2	0.2	0.2	1.1	1.0	0.3	0.4	0.7	0.4	0.0
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	3.6	1.9	-0.2	-0.7	-0.9	-1.0#	1.0#	1.8	-0.2	2.1	-2.3#	-0.9	-2.2#	1.0	2.2	0.7	-0.5	-0.7	-1.9	-1.6
STD ERR OF DP		1.3	0.7	0.7	0.7	0.4	0.4	1.4	0.3	2.5	0.9	0.7	0.6	1.4	2.1	0.7	0.8	1.3	1.0	1.1
STD ERR OF P	0.5	1.6	0.6	0.7	0.7	0.6	0.7	1.7	0.5	2.6	0.7	0.8	0.5	1.5	2.3	0.9	0.7	1.3	1.1	1.1

EXERCISE: ME12

A person is standing on the scale below weighing himself. How much does he weigh? (drawing of scale that shows the weight)

RESPONSE: 09 AGE: 13 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.4	0.8**	-0.2	-0.1	-0.4**	-0.1	0.1	1.0	-0.1	0.7	0.0	0.1	-0.4**	0.3	0.7	0.1	-0.4**	-0.4**	-0.2	-0.2
STD ERR OF DP		0.3	0.2	0.2	0.1	0.1	0.1	0.5	0.1	0.6	0.4	0.2	0.1	0.5	0.5	0.2	0.1	0.1	0.3	0.3
STD ERR OF P	0.1	0.3	0.2	0.2	0.0	0.2	0.1	0.6	0.1	0.7	0.4	0.3	0.1	0.5	0.5	0.3	0.0	0.0	0.3	0.3

RE13
OBJ IV

A recipe for punch calls for equal amounts of lemonade, limeade, orange juice, and ginger ale. How many PINTS of ginger ale would be needed in order to make two gallons of this punch?

ANSWER ______________________

SCORING GUIDE
RE13
E15004-234

00 = No Response

10 = 4 pints; 4

20 = 1/2 gallon; 2 quarts

21 = 16 pints; 16

22 = 8 pints; 8

23 = Other Unacceptable

24 = 3 1/2; 3 1/2 pints; 3.2; 3 1/5; attempt to divide 16 by 5

25 = 2; 2 gallons; 2 pints

39 = I Don't Know.

Report #: RE13

NAEP #: E15004-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		07-05	11-10	01-07
National P-value:	RE13	16.68	30.05	37.53
Timing: (in seconds)				
	Stimulus:	13	13	18
	Response:	41	40	*
RE13	Exercise total:	54	53	*

*Time not limited by paced tape.

EXERCISE: RE13

A recipe for punch calls for equal amounts of lemonade, limeade, orange juice and ginger ale. How many PINTS of ginger ale are needed in order to make two gallons of punch?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	2.1	-0.0	-0.0	-0.8	0.8	-0.2	0.2	1.0	-0.4*	[illegible]	-2.0#	-0.6	-0.5	2.1	-1.4*	0.1	-0.5	1.9	-1.2	0.3
STD ERR OF DP		0.7	0.5	0.6	0.7	0.3	0.3	1.1	0.2	1.8	0.4	0.4	0.3	2.1	0.7	0.5	0.7	1.3	0.6	1.2
STD ERR OF P	0.4	0.8	0.5	0.6	0.9	0.5	0.5	1.2	0.4	1.8	0.2	0.4	0.5	2.2	0.5	0.6	0.7	1.4	0.5	1.3
AGE: 17																				
DELTA-P	1.4	-0.3	-0.7	-0.2	1.3*	0.5*	-0.6*	1.7*	-0.4#	-0.1	0.3	-0.4	-0.8#	2.0	0.4	-0.8*	-0.1	2.6	-0.8	-0.4
STD ERR OF DP		0.5	0.4	0.5	0.6	0.2	0.3	0.8	0.1	1.0	0.8	0.4	0.3	1.1	0.9	0.3	0.6	2.4	0.5	0.7
STD ERR OF P	0.3	0.5	0.4	0.7	0.8	0.5	0.3	1.0	0.3	1.0	0.8	0.4	0.3	1.1	0.9	0.3	0.6	2.6	0.4	0.7
AGE: Ad																				
DELTA-P	0.2	0.0	-0.1	0.2	-0.2	0.2	-0.2	-0.2	0.0	-0.1	0.7	-0.2	-0.2	-0.2	0.3	0.1	0.1	-0.2	-0.2	-0.2
STD ERR OF DP		0.2	0.1	0.3	0.1	0.1	0.1	0.1	0.0	0.1	0.6	0.1	0.1	0.1	0.4	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.1	0.4	0.0	0.2	0.0	0.0	0.1	0.1	0.7	0.0	0.0	0.0	0.4	0.3	0.2	0.0	0.0	0.0
RESPONSE: 10* AGE: 13 TEXT: 4 pints; 4																				
DELTA-P	16.7	3.0	-0.9	0.3	-2.1	1.7	-1.6	1.5	-0.1	-4.0	2.6	-0.0	-0.5	-0.4	2.3	3.0	-0.2	-1.1	-3.7	-4.2
STD ERR OF DP		1.9	1.3	1.7	1.8	0.9	0.9	1.6	0.4	2.3	3.2	1.2	1.0	2.2	3.5	1.6	2.1	2.9	2.4	2.8
P-VALUE	16.7	19.7	15.8	16.9	14.6	18.3	15.0	18.1	16.6	12.7	19.3	16.7	16.2	16.3	19.0	19.7	16.5	15.6	13.0	12.5
STD ERR OF P	1.0	2.3	1.1	2.0	2.1	1.4	1.3	1.8	1.1	2.4	3.3	1.6	1.5	2.0	3.8	1.9	2.2	2.9	2.7	2.9
AGE: 17																				
DELTA-P	30.1	-5.6#	1.4	1.2	1.7	2.7*	-2.8*	-9.5#	1.5#	-6.4	-6.9#	-1.6	5.5#	-7.3#	1.8	3.9*	-4.6	-4.1	-1.9	4.6
STD ERR OF DP		1.6	2.1	1.5	1.7	1.2	1.2	2.1	0.4	3.7	2.6	1.4	0.9	2.1	2.3	1.6	3.1	3.3	2.3	2.6
P-VALUE	30.1	24.5	31.4	31.2	31.7	32.7	27.2	20.6	31.5	23.7	23.2	28.5	35.5	22.8	31.9	34.0	25.5	26.0	28.1	34.7
STD ERR OF P	1.0	1.6	2.6	1.7	1.8	1.5	1.5	2.1	1.1	3.6	2.7	1.7	1.4	2.1	2.5	1.9	3.1	3.4	2.6	2.5
AGE: Ad																				
DELTA-P	37.5	-0.3	-2.5	2.6	-0.2	3.6#	-3.3#	-13.4#	3.3#	-9.0#	-0.6	3.5	8.4#	-8.4*	0.7	0.2	-1.5	-2.4	0.2	7.9
STD ERR OF DP		2.5	3.0	2.1	2.1	1.3	1.2	3.2	0.6	1.8	2.8	1.9	2.1	3.8	3.0	1.8	3.8	4.7	3.5	4.0
P-VALUE	37.5	37.3	35.0	40.1	37.4	41.1	34.2	24.2	40.8	28.5	36.9	41.0	46.0	29.2	38.2	37.7	36.1	35.2	37.7	45.4
STD ERR OF P	1.4	2.8	3.9	2.3	2.1	2.0	1.7	3.2	1.5	2.5	3.1	2.0	2.6	4.0	2.9	2.5	4.3	4.9	3.4	4.2
RESPONSE: 20 AGE: 13 TEXT: 1/2 gallon; 2 quarts																				
DELTA-P	1.0	-0.3	0.0	0.5	-0.3	0.3	-0.3	-0.5	0.2#	0.3	-0.5	-0.2	0.5	-0.3	0.4	0.5	-0.8#	0.3	-0.3	-0.3
STD ERR OF DP		0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.1	0.8	0.3	0.3	0.3	0.4	0.6	0.3	0.2	0.5	0.4	0.6
STD ERR OF P	0.2	0.1	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.8	0.3	0.3	0.3	0.4	0.7	0.4	0.1	0.6	0.4	0.6
AGE: 17																				
DELTA-P	0.8	-0.5	-0.2	-0.4	1.2	0.0	-0.0	0.1	0.0	0.6	-0.5	-0.2	-0.4#	0.1	0.0	-0.2	-0.8#	-0.6	1.6	-0.8#
STD ERR OF DP		0.3	0.3	0.3	0.7	0.2	0.2	0.5	0.1	0.9	0.4	0.2	0.2	0.6	0.5	0.3	0.3	0.4	1.1	0.3
STD ERR OF P	0.3	0.2	0.3	0.3	0.9	0.3	0.3	0.5	0.3	0.9	0.3	0.4	0.3	0.6	0.5	0.3	0.0	0.3	1.3	0.0
AGE: Ad																				
DELTA-P	1.0	-0.8#	-0.1	0.7*	-0.0	-0.2	0.2	1.3	-0.1	0.4	-0.1	-0.4	0.0	-1.0#	1.8	-0.5*	-0.6	2.1	-0.0	0.2
STD ERR OF DP		0.3	0.4	0.3	0.4	0.3	0.3	1.3	0.2	0.6	0.6	0.3	0.4	0.2	1.1	0.2	0.4	1.7	0.7	0.7
STD ERR OF P	0.2	0.2	0.5	0.4	0.5	0.3	0.3	1.4	0.2	0.6	0.5	0.3	0.5	0.0	1.2	0.2	0.4	1.7	0.7	0.8
RESPONSE: [illegible] AGE: 13 TEXT: 16 pints; 16																				
DELTA-P	9.1	-0.8	-4.4#	0.3	4.6#	0.8	-0.8	-1.1	-0.1	-4.4*	-0.3	1.2	-0.2	-3.1	-2.9	-0.3	-0.1	2.2	2.7	0.2
STD ERR OF DP		1.0	1.0	1.3	1.3	0.6	0.6	1.6	0.4	2.0	2.3	0.9	0.6	2.5	2.1	1.1	1.2	2.6	2.2	2.0
STD ERR OF P	0.7	0.9	1.0	1.6	1.6	1.0	0.9	1.7	0.8	1.8	2.4	1.3	0.9	2.6	2.1	1.3	1.1	2.8	2.5	2.2
AGE: 17																				
DELTA-P	5.8	-0.5	-2.2#	1.1	1.4	-0.4	0.5	-3.0#	0.4	0.8	5.1#	-0.1	-1.4*	-0.4	-0.5	-0.6	-0.2	0.5	2.0	-1.1
STD ERR OF DP		1.0	0.8	0.8	0.9	0.5	0.6	0.8	0.2	2.0	1.9	0.8	0.7	1.4	1.0	0.7	1.0	2.1	1.2	1.6
STD ERR OF P	0.5	1.1	0.9	1.0	1.1	0.8	0.7	0.8	0.6	2.1	1.9	0.8	0.8	1.4	1.1	0.8	0.9	2.3	1.4	1.7

EXERCISE: PE13

A recipe for punch calls for equal amounts of lemonade, limeade, orange juice and ginger ale. How many PINTS of ginger ale are needed in order to make two gallons of punch?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad	TEXT: 16 pints; 16																			
DELTA-P	7.0	0.3	-1.6	0.6	0.7	-0.7	0.7	-1.0	-0.0	0.3	-0.4	-0.6	-0.3	-1.3	-0.3	0.3	0.3	-0.6	0.6	-0.3
STD ERR OF DP		1.3	1.2	1.2	1.0	0.6	0.5	1.8	0.3	1.1	1.5	0.9	1.1	1.9	1.7	0.8	1.5	2.0	2.4	1.7
STD ERR OF P	0.7	1.4	1.5	1.6	0.9	0.9	0.9	1.9	0.8	1.3	1.6	1.1	1.2	1.9	1.7	1.1	1.6	2.2	2.7	1.9
RESPONSE: 22 AGE: 13	TEXT: 8 pints; 8																			
DELTA-P	14.7	-1.5	-1.3	3.2*	-0.9	0.6	-0.5	-2.8	0.4	-2.2	-3.0	2.8*	-0.8	-1.3	-0.1	0.9	-2.3	-1.4	5.4*	-3.7
STD ERR OF DP		1.5	1.3	1.5	1.2	0.8	0.8	2.2	0.4	2.4	1.8	1.1	1.0	2.7	2.7	1.2	2.1	2.3	2.5	2.1
STD ERR OF P	0.8	1.7	1.4	1.9	1.3	1.2	1.1	2.2	1.0	2.6	1.8	1.4	1.4	2.7	2.9	1.3	2.3	2.3	2.8	2.2
AGE: 17																				
DELTA-P	9.7	2.0	-0.8	0.3	-1.2	0.7	-0.8	5.2	-0.5	-2.8	1.0	0.9	-1.1	0.8	3.1	-1.4	4.5*	1.3	-1.1	-2.7
STD ERR OF DP		1.1	1.2	1.1	1.1	0.8	0.9	2.7	0.4	2.4	2.0	1.1	0.8	2.6	1.9	0.8	2.2	2.0	1.6	1.4
STD ERR OF P	0.7	1.2	1.4	1.3	1.3	1.1	1.1	2.9	0.7	2.3	2.1	1.4	0.9	[illegible]	2.0	0.9	2.4	2.0	1.8	1.4
AGE: Ad																				
DELTA-P	10.0	-0.2	-0.1	0.3	-0.1	-1.7	1.6*	3.5	-0.7	3.9*	-2.2	-1.6	-1.3	1.3	0.3	-1.5	2.7	0.4	3.7	-2.5
STD ERR OF DP		1.5	1.3	1.7	1.8	0.9	0.8	2.7	0.4	1.4	1.6	1.0	1.4	2.2	2.0	1.1	3.2	3.5	3.9	2.0
STD ERR OF P	0.9	1.5	1.3	2.2	2.1	1.2	1.3	2.9	1.1	1.8	1.7	1.2	1.8	2.3	2.0	1.3	3.4	3.6	4.3	2.1
RESPONSE: 23 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	25.5	-0.2	-0.7	-0.2	1.0	-0.3	0.3	5.2*	-0.7	6.5	-0.3	-2.7	2.4*	-1.1	0.0	-1.2	4.2	-0.7	-3.1	2.5
STD ERR OF DP		2.7	2.7	2.0	2.3	0.9	0.9	2.3	0.5	4.0	3.3	1.4	1.2	[illegible]	3.0	1.8	2.9	3.5	2.7	3.1
STD ERR OF P	1.4	3.2	3.2	2.2	2.6	1.6	1.7	2.4	1.6	4.6	3.1	2.0	1.9	3.6	3.0	2.3	3.4	3.7	3.2	3.2
AGE: 17																				
DELTA-P	22.5	0.3	0.6	-1.6	1.1	-1.5	1.6	7.8*	-1.4*	5.1	-0.7	-2.3	0.2	5.5	-5.5*	-1.1	-2.6	7.8	1.6	-3.8
STD ERR OF DP		1.7	1.8	1.5	1.9	1.1	1.2	2.5	0.5	3.4	2.1	1.1	0.9	3.8	2.4	1.4	2.4	4.9	2.7	2.1
STD ERR OF P	1.0	1.8	2.0	1.9	2.3	1.5	1.6	2.9	1.0	3.3	2.2	1.5	1.4	4.1	2.2	1.4	2.5	5.3	2.9	1.9
AGE: Ad																				
DELTA-P	14.3	-0.8	3.2	-2.9	0.8	-0.3	0.3	6.2	-1.4*	2.8	1.9	-0.3	-3.4*	-1.8	3.4	-0.9	1.5	-1.3	0.8	0.6
STD ERR OF DP		1.7	1.6	1.5	1.7	0.9	0.9	3.5	0.5	1.7	2.0	1.4	1.4	3.0	2.3	1.0	2.8	3.6	2.5	2.7
STD ERR OF P	0.9	1.9	1.9	1.8	1.9	1.4	1.2	3.8	0.9	2.0	2.3	1.7	1.6	3.2	2.2	1.2	3.1	3.7	2.8	2.8
RESPONSE: 24 AGE: 13	TEXT: 3 1/2; 3 1/2 pints; 3.2; 3 1/5; attempt to divide 16 by 5																			
DELTA-P	1.7	-0.4	-0.1	-0.7	1.1	0.4	-0.4	-1.5*	0.4*	-1.7*	-1.4*	-0.5	1.1*	-1.5*	-0.9	-0.8	-0.2	0.2	-0.4	4.4
STD ERR OF DP		0.5	0.6	0.4	0.9	0.3	0.2	0.4	0.1	0.4	0.4	0.4	0.5	0.4	0.6	0.4	0.5	0.9	0.6	2.4
STD ERR OF P	0.4	0.5	0.6	0.4	1.2	0.5	0.4	0.2	0.5	0.0	0.4	0.4	0.8	0.2	0.6	0.4	0.5	0.9	0.5	2.6
AGE: 17																				
DELTA-P	4.8	1.1	-2.2*	0.9	0.2	0.9	-0.9*	-2.4*	0.6*	-2.5*	-0.9	0.1	0.8	-3.2*	-0.9	0.4	-1.0	3.7	-1.0	2.3
STD ERR OF DP		1.2	0.8	1.1	1.0	0.5	0.5	1.2	0.2	1.1	1.0	0.7	0.6	1.0	1.4	0.9	1.7	3.8	1.0	1.9
STD ERR OF P	0.6	1.3	0.8	1.4	1.1	0.8	0.7	1.2	0.7	1.1	1.0	1.0	0.8	0.7	1.4	1.0	1.7	4.1	1.0	1.9
AGE: Ad																				
DELTA-P	7.6	-1.4	2.1	-1.1	0.3	3.3*	-3.1*	-3.6*	0.6*	-0.0	-2.9*	0.1	2.6	-0.2	-1.5	0.1	0.7	-0.1	0.3	0.1
STD ERR OF DP		1.0	1.5	0.9	1.1	0.7	0.6	1.6	0.3	1.3	1.3	1.0	1.5	2.3	1.2	0.8	1.7	2.2	2.0	1.5
STD ERR OF P	0.7	1.0	1.9	0.9	1.2	1.2	0.6	1.6	0.8	1.5	1.2	1.0	1.9	2.4	1.2	1.1	1.7	2.4	2.0	1.6
RESPONSE: 25 AGE: 13	TEXT: 2; 2 gallons; 2 pints																			
DELTA-P	16.3	1.7	4.9*	-1.5	-3.7*	-0.7	0.7	0.8	0.0	4.2	2.9	1.0	-0.7	3.6	3.6	-1.3	-0.4	0.1	-0.3	-1.2
STD ERR OF DP		[illegible]	2.4	1.6	1.3	0.9	0.9	2.2	0.4	3.5	3.0	1.0	1.0	3.5	5.1	1.4	2.2	2.3	3.0	2.4
STD ERR OF P	1.0	1.5	3.0	1.8	1.2	1.5	1.2	2.0	1.3	3.6	3.3	1.5	1.5	3.6	5.6	1.5	2.4	2.1	3.3	2.4

EXERCISE: RE13

A recipe for punch calls for equal amounts of lemonade, limeade, orange juice and ginger ale. How many PINTS of ginger ale are needed in order to make two gallons of punch?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 25 AGE: 17 TEXT: 2; 2 gallons; 2 pints																				
DELTA-P	15.5	2.5	1.4	-1.1	-2.2	-2.9*	3.1*	-0.2	0.1	1.7	-0.4	2.2*	-0.3	-1.8	3.3	2.0	-0.4	-8.4*	0.1	-0.3
STD ERR OF DP		1.8	1.2	1.2	1.4	0.8	0.9	2.2	0.4	2.5	2.0	1.1	0.9	2.6	2.4	1.2	2.7	1.9	2.3	1.9
STD ERR OF P	0.8	2.0	1.3	1.5	1.6	1.0	1.2	2.4	0.8	2.6	2.0	1.4	1.2	2.6	2.5	1.4	2.9	2.0	2.5	1.7
AGE: Ad																				
DELTA-P	15.0	1.6	0.2	-0.6	-1.0	-2.2*	2.1*	1.3	-0.1	-1.5	1.6	1.9	-1.6	5.2	-1.3	1.9	-3.8	-2.2	-1.2	-2.8
STD ERR OF DP		1.5	1.6	1.3	1.9	0.9	0.9	2.7	0.4	1.4	2.0	1.3	1.4	3.3	2.6	1.1	2.2	2.0	2.6	2.0
STD ERR OF P	0.9	1.6	1.8	1.4	2.3	1.1	1.4	3.0	0.9	1.7	2.2	1.4	1.7	3.6	2.6	1.4	2.3	2.0	2.7	2.2
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	12.9	-0.5	2.5	-1.1	-0.7	-2.6*	2.5*	-2.6	0.3	-1.3	1.9	-1.1	-1.3	2.0	-1.0	-0.9	0.4	-1.5	0.6	2.1
STD ERR OF DP		1.4	1.4	1.3	1.1	0.8	0.8	1.4	0.3	2.4	2.6	1.3	0.9	3.0	2.2	1.2	1.9	2.0	1.6	1.7
STD ERR OF P	0.8	1.5	1.7	1.6	1.1	1.0	1.2	1.3	0.9	2.5	2.8	1.5	1.1	3.0	2.4	1.4	2.1	2.1	1.7	1.9
AGE: 17																				
DELTA-P	9.4	1.0	2.9	-0.3	-3.6*	0.0	-0.0	0.4	-0.3	3.3	3.0	1.2	-2.5*	4.4*	-1.7	-2.3*	5.2*	-2.8	-0.3	2.2
STD ERR OF DP		1.2	1.5	1.3	1.0	0.7	0.7	1.4	0.3	2.6	2.3	1.1	0.7	2.0	1.5	0.9	2.5	1.9	1.8	1.9
STD ERR OF P	0.8	1.2	1.9	1.6	1.0	1.1	1.0	1.7	0.9	2.8	2.3	1.4	0.9	2.2	1.4	1.1	2.8	2.0	2.1	1.8
AGE: Ad																				
DELTA-P	7.5	1.5	-1.1	0.3	-0.5	-1.9*	1.8*	5.9*	-1.4*	3.3*	2.0	-2.4*	-4.4*	6.2*	-3.4*	0.3	0.7	4.4	-4.1*	-2.9
STD ERR OF DP		1.6	1.2	1.3	1.7	0.7	0.6	2.2	0.4	1.2	2.2	0.9	1.0	2.7	1.4	1.1	2.5	4.2	1.4	1.8
STD ERR OF P	0.8	1.7	1.3	1.6	2.1	0.9	1.2	2.5	0.7	1.6	2.5	1.0	0.9	2.7	1.2	1.4	2.7	4.4	1.2	1.7

EE14
OBJ III

If you have two nickels, one quarter and four pennies, how much money do you have all together?

ANSWER ______________________

SCORING GUIDE
EE14
E20012-1

00 = No Response

10 = $.39; 39¢; 39 cents

11 = 39 with wrong units or no units; e.g., .39¢; ¢39; ¢.39; $39; 39$; etc.

12 = Correct process with no answer or wrong answer; e.g., (5 + 5 + 25 + 4); (10 + 25 + 4)

20 = 7 with no label or wrong label

21 = Other Unacceptable

22 = 34¢; 34

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

Report #: EE14

NAEP #: E20012-1

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		07-33
National P-value:		
	EE14	67.61

Timing: (in seconds)

	Stimulus:	6
	Response:	31
EE14	Exercise total:	37

EXERCISE: RE14

If you have two nickels, one quarter and four pennies, how much money do you have all together?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.4	-0.3	-0.4	0.9	-0.4	0.2	-0.2	3.2	-0.7	0.7	1.1	-0.4	-0.8#	7.8	-0.3	-0.5	-0.6	-0.0	-0.6	-1.4#
STD ERR OF DP		0.6	0.6	1.2	0.6	0.2	0.2	2.5	0.4	1.1	1.2	0.3	0.2	6.3	0.9	0.5	0.7	0.9	0.7	0.5
STD ERR OF P	0.5	0.5	0.5	1.7	0.4	0.6	0.5	2.9	0.2	1.1	1.5	0.6	0.5	6.7	0.8	0.3	0.6	0.8	0.6	0.0
RESPONSE: 01* AGE: 9	TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)																			
DELTA-P	67.6	-9.4#	1.1	1.0	6.5#	-0.4	0.4	-18.0#	3.2#	-7.0	-8.7	0.7	10.0#	-11.4*	-4.2	-1.4	-1.8	-2.1	4.5	11.0#
STD ERR OF DP		2.9	2.7	2.3	2.0	1.0	1.0	3.3	0.7	5.2	4.4	2.2	1.6	4.6	5.3	2.6	3.6	3.1	3.6	3.1
P-VALUE	67.6	58.2	68.8	68.6	74.1	67.2	68.0	49.6	70.8	60.6	58.9	68.3	77.6	56.3	63.4	66.2	65.9	65.5	72.1	78.6
STD ERR OF P	1.5	3.6	3.0	2.7	1.9	1.7	1.8	3.3	1.6	5.7	4.9	2.6	1.7	4.4	5.6	3.3	3.8	3.3	4.0	2.6
RESPONSE: 10 AGE: 9	TEXT: $.39; 39¢; 39 cents																			
DELTA-P	51.8	-7.9*	-2.3	2.3	6.6#	-1.5	1.5	-17.6#	3.5#	-10.1#	-13.5#	2.7	10.5#	-13.3#	-1.6	-2.0	-1.1	-3.2	2.8	14.1#
STD ERR OF DP		3.7	2.3	2.5	2.5	1.1	1.1	3.0	0.7	3.8	4.5	2.1	1.7	4.4	5.5	2.4	4.6	4.4	4.3	3.8
STD ERR OF P	1.6	4.6	2.2	2.7	2.8	1.9	2.1	2.8	1.8	4.0	4.9	2.6	2.2	3.9	5.9	3.0	4.9	4.8	4.8	3.6
RESPONSE: 11 AGE: 9	TEXT: 39 with wrong units or no units, e.g., .39¢; ¢39; ¢.39; $39; 39$; etc.																			
DELTA-P	15.8	-1.5	3.4	-1.3	-0.1	1.1	-1.1	-0.4	-0.4	3.1	4.8	-2.0	-0.5	2.0	-2.6	0.6	-0.7	1.1	1.7	-3.1
STD ERR OF DP		1.7	1.8	1.4	1.6	0.9	0.9	1.9	0.4	3.7	4.0	1.4	1.2	2.6	2.5	1.4	2.8	2.3	2.6	2.3
STD ERR OF P	0.9	2.0	2.1	1.5	1.9	1.3	1.2	1.9	1.1	3.7	4.0	1.7	1.7	2.4	2.5	1.8	3.2	2.4	2.7	2.4
RESPONSE: 12 AGE: 9	TEXT: Correct process with no answer or wrong answer; e.g., (5 + 5 + 25 + 4); (10 + 25 + 4)																			
DELTA-P	0.5	-0.4*	-0.4*	0.7*	-0.1	0.0	-0.0	-0.1	0.1	-0.5#	-0.5#	0.2	0.1	-0.5#	-0.1	0.3	-0.1	-0.0	-0.0	-0.3
STD ERR OF DP		0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.1	0.1	0.1	0.3	0.2	0.1	0.3	0.2	0.3	0.5	0.4	0.2
STD ERR OF P	0.1	0.1	0.1	0.4	0.2	0.2	0.2	0.3	0.2	0.0	0.0	0.4	0.3	0.0	0.3	0.3	0.3	0.5	0.5	0.2
RESPONSE: 20 AGE: 9	TEXT: 7 with wrong label or no label																			
DELTA-P	0.4	-0.1	0.2	-0.1	0.1	-0.1	0.1	0.3	-0.1	-0.4#	1.2	0.3	-0.3*	-0.4#	-0.1	0.5	-0.3	-0.4#	-0.4#	0.2
STD ERR OF DP		0.2	0.2	0.2	0.3	0.1	0.1	0.4	0.1	0.1	1.0	0.3	0.1	0.1	0.3	0.3	0.2	0.1	0.1	0.5
STD ERR OF P	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.5	0.2	0.0	1.1	0.4	0.1	0.0	0.3	0.4	0.1	0.0	0.0	0.5
RESPONSE: 21 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	20.8	7.4#	-0.7	-1.4	-4.6#	0.1	-0.1	9.6#	-1.6#	-0.7	7.7	-0.5	-4.9#	2.0	3.2	0.8	1.9	1.6	-0.6	-7.8#
STD ERR OF DP		2.2	1.7	1.6	1.5	0.9	1.0	2.5	0.5	3.8	4.3	1.6	1.5	3.4	3.6	1.7	2.6	2.8	2.5	2.1
STD ERR OF P	1.0	2.7	1.8	1.8	1.6	1.4	1.4	2.9	1.0	4.0	4.5	1.9	1.6	3.5	3.8	2.1	2.7	3.1	2.7	1.9
RESPONSE: 22 AGE: 9	TEXT: 34¢; 34																			
DELTA-P	5.3	0.5	-0.3	-0.7	0.6	0.3	-0.3	2.2	-0.4	0.5	1.8	2.1	-1.6#	1.3	2.2	-0.4	-1.1	1.0	-2.0	1.3
STD ERR OF DP		0.8	0.9	0.9	1.0	0.6	0.6	1.4	0.3	2.2	2.7	1.2	0.6	2.3	1.8	0.9	1.0	1.2	1.1	1.8
STD ERR OF P	0.5	0.8	1.0	1.1	1.2	0.8	0.8	1.6	0.6	2.4	2.7	1.5	0.7	2.5	1.8	0.9	1.0	1.2	1.2	2.0
RESPONSE: 3[illegible] AGE: 9	TEXT: I Don't Know.																			
DELTA-P	4.0	2.2*	0.4	-0.3	-2.1#	-0.2	0.2	2.7*	-0.5*	7.3*	-2.6*	-2.4#	-2.5#	1.2	-0.7	0.8	1.9	-0.0	-0.9	-3.0#
STD ERR OF DP		1.1	1.2	0.9	0.7	0.4	0.4	1.1	0.2	3.5	1.1	0.8	0.6	1.7	1.2	1.0	1.9	1.1	1.4	0.8
STD ERR OF P	0.6	1.4	1.4	1.1	0.5	0.6	0.7	1.1	0.6	3.7	1.0	0.6	0.5	1.7	1.2	1.2	2.1	1.1	1.6	0.6

EE15
OBJ I

How many quarts are there in one gallon?

ANSWER ______________________

Report #: EE15

WARP #: E20024-12

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		9	13
Age:		9	13
Package-Exercise:		05-13	06-01
National P-value:			
	EE15	43.93	84.00

Timing: (in seconds)

	Stimulus:	3	2
	Response:	15	12
EE15	Exercise total:	18	14

SCORING GUIDE
EE15
E20024-12

00 = No response

10 = 4 quarts; 4

20 = 2 quarts; 2

21 = 1 quart; 1

22 = 8 quarts; 8

23 = Other Unacceptable

39 = I Don't Know.

EXERCISE: RE15

How many quarts are there in one gallon?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.3	-0.1	1.2	-0.6	-0.6	-0.4	0.4	0.1	-0.8	2.0	0.3	-0.3	-1.3*	0.5	4.4	-0.8	-0.1	0.7	-1.3*	-0.7
STD ERR OF DP		0.6	1.1	0.5	0.5	0.3	0.3	0.6	0.4	1.8	1.2	0.3	0.4	0.8	3.8	0.4	0.8	0.7	0.4	0.6
STD ERR OF P	0.4	0.5	1.5	0.4	0.4	0.3	0.7	0.5	0.2	2.0	1.2	0.5	0.1	0.8	4.1	0.3	0.7	0.7	0.0	0.5
AGE: 13																				
DELTA-P	1.1	-0.2	-0.3	0.9*	-0.6*	-0.1	0.1	1.5	-0.3*	1.0	-0.7*	0.6	-0.7*	2.6*	-0.9*	-0.4	0.1	0.2	0.7	-0.7
STD ERR OF DP		0.3	0.3	0.4	0.3	0.2	0.2	0.9	0.1	1.1	0.3	0.5	0.2	1.3	0.3	0.3	0.5	0.6	1.0	0.4
STD ERR OF P	0.2	0.3	0.4	0.6	0.2	0.3	0.3	0.9	0.2	1.1	0.3	0.6	0.2	1.3	0.2	0.2	0.6	0.7	1.2	0.3
RESPONSE: 10* AGE: 9	TEXT: 4 quarts; 4																			
DELTA-P	43.9	-6.3*	-3.3	3.1	6.7*	5.7*	-5.7*	-20.8*	5.5*	-14.5*	-3.5	1.5	9.4*	-22.5*	-1.1	-1.5	2.5	-4.8	9.7*	14.1*
STD ERR OF DP		3.1	3.2	3.4	2.6	1.5	1.6	3.3	1.0	4.5	4.7	2.1	1.8	5.0	5.7	2.4	5.1	4.5	4.7	3.9
P-VALUE	43.9	37.6	40.6	47.0	50.6	49.6	38.3	23.2	49.5	29.5	40.4	45.4	53.3	21.5	42.8	42.5	46.4	39.1	53.6	58.0
STD ERR OF P	1.8	3.6	3.8	4.1	2.6	2.3	2.4	3.3	2.1	4.4	4.8	2.6	2.6	5.3	6.1	2.8	5.6	4.7	5.1	3.8
AGE: 13																				
DELTA-P	84.0	-2.1	-6.0*	3.2	4.2*	2.9*	-2.7*	-17.8*	3.2*	-4.4	0.1	-0.3	5.3*	-7.8*	-0.6	1.9	-3.2	-8.6*	0.3	8.3*
STD ERR OF DP		2.0	1.8	1.7	1.5	0.9	0.9	3.3	0.6	3.9	2.8	1.3	1.2	3.7	4.7	1.6	2.4	2.7	2.3	1.9
P-VALUE	84.0	82.0	78.0	87.2	88.2	86.9	81.3	66.2	87.2	79.6	84.1	83.7	89.3	76.2	83.4	85.9	80.8	75.4	84.3	92.3
STD ERR OF P	1.0	2.4	2.1	2.1	1.6	1.1	1.6	3.5	1.1	4.2	3.1	1.6	1.4	3.6	5.3	2.0	2.6	2.6	2.2	1.8
RESPONSE: 20 AGE: 9	TEXT: 2 quarts; 2																			
DELTA-P	26.4	-0.5	1.2	2.0	-2.9	-2.2	2.2	4.7	-0.4	5.6	-3.0	0.1	-1.4	12.3*	-6.2	2.2	-5.8	0.9	-4.8	-1.4
STD ERR OF DP		2.0	2.7	2.8	1.9	1.3	1.3	2.7	0.6	4.0	5.8	1.9	1.7	4.3	4.1	1.9	3.3	3.6	4.7	2.7
STD ERR OF P	1.4	2.0	3.3	3.6	1.8	1.6	2.2	2.7	1.5	4.4	6.1	2.6	1.9	4.9	4.0	2.3	3.4	3.8	5.1	2.7
AGE: 13																				
DELTA-P	5.4	0.3	1.2	-1.0	-0.3	-0.8	0.7	2.5	-0.5	0.7	1.2	-0.4	-1.3	2.0	1.6	-0.8	0.8	1.7	-0.4	-1.8
STD ERR OF DP		1.1	0.9	1.3	1.0	0.6	0.6	1.4	0.3	1.8	1.7	0.7	0.7	1.6	3.4	0.8	1.5	1.4	1.9	1.3
STD ERR OF P	0.6	1.2	0.8	1.7	1.0	0.8	1.0	1.4	0.8	1.8	1.8	1.0	0.8	1.5	3.8	0.8	1.6	1.5	2.0	1.4
RESPONSE: 21 AGE: 9	TEXT: 1 quart; 1																			
DELTA-P	2.6	0.4	0.9	-1.0	-0.4	-0.5	0.5	2.5*	-0.9*	3.8	0.6	-0.5	-1.6*	2.8	3.6	0.0	-0.9	-0.3	-1.1	-2.3*
STD ERR OF DP		0.8	1.0	0.7	0.8	0.5	0.5	1.2	0.3	2.2	1.6	0.7	0.4	2.3	2.1	0.6	0.9	1.3	1.0	0.5
STD ERR OF P	0.5	0.9	1.3	0.7	0.8	0.7	0.6	1.4	0.4	2.5	1.6	0.9	0.4	2.4	2.3	0.9	0.8	1.3	1.1	0.3
AGE: 13																				
DELTA-P	0.5	0.3	0.3	-0.5*	-0.0	-0.2	0.2	2.0*	-0.3*	0.7	0.4	0.1	-0.5*	1.1	0.4	-0.2	-0.3	-0.5*	0.3	-0.2
STD ERR OF DP		0.3	0.3	0.2	0.2	0.1	0.1	0.9	0.1	0.6	0.6	0.2	0.2	1.1	0.5	0.2	0.3	0.2	0.4	0.3
STD ERR OF P	0.2	0.4	0.4	0.0	0.3	0.2	0.2	1.0	0.1	0.7	0.6	0.3	0.0	1.1	0.5	0.2	0.2	0.0	0.5	0.3
RESPONSE: 22 AGE: 9	TEXT: 8 quarts; 8																			
DELTA-P	2.0	0.4	-1.0*	1.2	-0.6	-0.1	0.1	0.1	0.2	-1.2	0.0	-0.4	0.3	-1.7*	-0.3	0.7	-0.3	-0.0	-0.9	0.7
STD ERR OF DP		0.7	0.4	0.6	0.6	0.3	0.3	1.0	0.2	0.8	1.2	0.5	0.5	0.4	1.0	0.6	0.7	0.9	0.7	1.7
STD ERR OF P	0.3	0.9	0.3	0.8	0.7	0.5	0.5	1.2	0.4	0.9	1.3	0.5	0.6	0.2	1.0	0.8	0.7	0.9	0.6	1.8
AGE: 13																				
DELTA-P	1.5	0.0	-0.0	0.2	-0.2	-0.5	0.4	2.4	-0.2	0.0	-0.4	-0.0	-0.0	0.2	-0.7	-0.3	1.7	1.8	-0.6	-1.1*
STD ERR OF DP		0.6	0.6	0.6	0.6	0.3	0.3	1.4	0.2	0.9	0.6	0.5	0.4	1.1	0.5	0.5	1.4	1.8	0.6	0.4
STD ERR OF P	0.4	0.7	0.7	0.8	0.6	0.3	0.6	1.6	0.4	0.9	0.6	0.6	0.5	1.1	0.4	0.6	1.6	1.9	0.5	0.3
RESPONSE: 23 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	15.3	5.7*	-0.1	-2.5	-3.0*	-0.4	0.4	10.5*	-2.5*	5.0	2.3	-0.0	-2.1	4.2	0.4	-0.5	5.0	2.2	1.0	-9.3*
STD ERR OF DP		1.9	1.4	1.8	1.5	0.8	0.8	2.4	0.6	4.0	4.6	1.5	1.2	3.5	2.8	1.3	4.0	2.8	3.8	1.5
STD ERR OF P	1.0	2.4	1.5	2.1	1.6	1.3	1.3	2.9	1.1	4.1	5.0	1.8	1.5	3.9	2.8	1.5	4.4	2.8	4.1	1.1

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: RE15

How many quarts are there in one gallon?

RESPONSE: 23 AGE: 13 TEXT: Other Unacceptable

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	4.7	1.2	2.5*	-1.9*	-1.3	-0.3	0.3	7.1*	-1.3*	0.4	-0.3	0.7	-1.5*	1.5	0.4	0.4	-0.1	3.1*	-1.4	-2.4*
STD ERR OF DP		0.8	1.2	0.6	0.9	0.5	0.5	1.6	0.3	1.9	1.4	0.8	0.5	0.9	2.0	0.7	0.8	1.4	1.0	0.8
STD ERR OF P	0.5	0.9	1.5	0.6	1.0	0.7	0.8	1.7	0.5	1.9	1.4	1.0	0.7	0.8	2.1	1.0	0.9	1.5	1.0	0.8

RESPONSE: 39 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	8.4	0.3	1.1	-2.1	0.8	-2.2*	2.1*	3.0	-1.2*	-0.8	3.3	-0.4	-3.4*	4.4	-0.8	-0.1	-0.4	1.4	-2.5	-1.1
STD ERR OF DP		1.2	1.6	1.2	1.5	0.7	0.7	1.6	0.5	3.1	3.2	1.4	1.0	4.1	3.1	1.2	1.5	2.0	1.8	1.9
STD ERR OF P	0.8	1.3	1.9	1.2	1.8	0.8	1.3	1.7	0.9	3.1	3.5	1.5	0.9	4.2	3.2	1.6	1.6	2.1	1.6	2.0

AGE: 13

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.9	0.5	2.2*	-0.8	-1.8*	-1.1*	1.0*	2.4	-0.7*	1.6	-0.2	-0.7	-1.4*	0.4	-0.1	-0.6	1.0	2.3	1.0	-2.0*
STD ERR OF DP		0.8	0.8	0.6	0.5	0.4	0.4	1.4	0.2	1.8	0.9	0.4	0.4	1.3	1.3	0.6	1.5	1.5	0.9	0.7
STD ERR OF P	0.4	0.9	1.0	0.8	0.4	0.4	0.7	1.4	0.4	1.9	1.0	0.5	0.4	1.3	1.4	0.6	1.7	1.6	1.0	0.7

RE16
OBJ IV

A map of a state is to be drawn so that $\frac{1}{4}$ inch represents five miles. If the real distance between two points in the state is 20 miles, how many inches apart should these two points be on the map?

ANSWER________________________

SCORING GUIDE
RE16
C50008-234

00 = No Response

10 = 1; 1 inch

20 = 5; 5 inches

21 = 4; 4 inches

22 = Other Unacceptable

23 = 1 1/4; 1 1/4 inches; 5/4; 5/4 inches

39 = I Don't Know.

Report #: RE16

NAEP #: C50008-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		02-17	08-21	07-22
National P-value:				
	RE16	61.50	59.38	66.75
Timing: (in seconds)				
	Stimulus:	14	14	14
	Response:	41	40	*
RE16	Exercise total:	55	54	*

*Time not limited by paced tape.

EXERCISE: RR16

A map is to be drawn so that 1/4 inch represents 5 miles. If the real distance between 2 points is 20 miles, how many inches apart should these points be on the map?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.6	0.1	0.6	-0.8*	0.2	-0.1	0.1	0.6	-0.2	-0.7	1.4	-0.5	-0.6	2.6	-0.5	-0.6	-0.4	-0.2	1.1	-0.4
STD ERR OF DP		0.5	0.7	0.4	0.5	0.3	0.3	0.7	0.1	0.5	1.3	0.5	0.5	1.4	0.6	0.4	0.7	0.7	1.6	0.7
STD ERR OF P	0.3	0.5	0.9	0.3	0.6	0.4	0.4	0.7	0.4	0.5	1.3	0.4	0.7	1.4	0.5	0.4	0.6	0.7	1.8	0.7
AGE: 17																				
DELTA-P	2.7	-0.3	2.5	-1.9*	0.0	-0.5	0.5	2.7	-0.9#	0.3	2.5*	-0.1	-1.5#	2.3	-2.1*	-1.3	-1.3	-0.0	7.5	-1.4
STD ERR OF DP		1.2	2.2	0.8	0.9	0.3	0.3	1.4	0.3	1.1	1.1	0.6	0.4	2.2	0.9	0.8	0.9	1.4	5.5	0.9
STD ERR OF P	0.8	1.3	2.8	0.3	0.8	0.8	0.9	1.5	0.7	1.4	1.5	1.2	0.6	2.2	0.6	0.6	0.6	1.1	6.2	0.7
AGE: Ad																				
DELTA-P	0.2	0.0	0.3	-0.1	-0.2	0.1	-0.1	0.3	-0.1	0.1	-0.2	-0.0	-0.1	-0.2	0.5	-0.2	0.8	0.4	-0.2	-0.2
STD ERR OF DP		0.2	0.3	0.1	0.1	0.1	0.1	0.5	0.1	0.2	0.1	0.2	0.1	0.1	0.6	0.1	0.6	0.6	0.1	0.1
STD ERR OF P	0.1	0.2	0.4	0.1	0.0	0.2	0.1	0.5	0.1	0.3	0.0	0.2	0.1	0.0	0.6	0.0	0.7	0.6	0.0	0.0
RESPONSE: 10* AGE: 13 TEXT: 1; 1 inch																				
DELTA-P	41.6	-7.8*	-0.8	4.6*	2.8	5.1#	-5.0#	-27.1#	6.2#	-14.0#	-10.4#	2.0	9.4#	-25.6#	-6.7	0.2	-0.4	-1.5	9.5	9.5
STD ERR OF DP		3.2	3.1	2.3	2.2	1.2	1.2	2.4	0.7	3.9	3.5	1.8	1.3	3.8	4.5	1.9	3.3	2.4	6.7	4.8
P-VALUE	41.6	33.7	40.7	46.2	44.4	46.7	36.6	14.5	47.8	27.5	31.2	43.5	51.0	16.0	34.9	41.8	41.2	40.1	51.0	51.1
STD ERR OF P	1.6	3.7	3.8	2.6	2.1	1.9	2.0	2.3	1.7	4.2	4.0	2.2	2.2	3.3	4.9	2.2	3.5	2.4	5.4	5.2
AGE: 17																				
DELTA-P	59.3	-9.0*	1.2	3.3	3.0	7.3#	-6.7#	-37.7#	7.6#	-25.9#	-16.8#	-0.5	13.9#	-22.3#	-4.0	3.4	2.6	-8.5	0.9	12.8#
STD ERR OF DP		4.2	2.6	2.2	2.4	1.2	1.1	2.0	0.8	3.6	2.9	1.8	1.4	4.3	4.0	1.7	3.6	5.1	5.5	2.7
P-VALUE	59.3	50.4	60.5	62.6	62.3	66.7	52.7	21.7	66.9	33.4	42.5	58.8	73.2	37.1	55.3	62.7	62.0	50.8	60.3	72.2
STD ERR OF P	1.6	5.2	2.8	2.2	2.5	1.7	2.2	2.2	1.5	3.8	3.5	2.2	1.8	4.3	4.1	2.1	4.3	5.4	6.0	2.5
AGE: Ad																				
DELTA-P	66.8	-4.1	-1.3	2.1	2.4	6.9#	-6.4#	-38.1#	6.0#	-15.8#	-5.8	6.2#	13.9#	-20.0#	2.0	-0.3	-0.2	-1.0	0.9	13.2#
STD ERR OF DP		2.9	3.1	2.4	2.7	1.4	1.3	2.5	0.7	2.5	3.1	1.7	2.0	4.3	3.0	1.7	4.2	4.9	3.7	3.6
P-VALUE	66.8	62.7	65.4	68.9	69.2	73.7	60.3	28.7	72.7	50.9	61.0	72.9	80.6	46.8	68.8	66.4	66.6	65.8	67.6	80.0
STD ERR OF P	1.6	3.2	3.8	2.7	3.1	2.2	2.0	2.8	1.4	3.1	3.4	2.2	2.4	4.3	3.1	2.0	4.6	5.4	4.3	4.1
RESPONSE: 20 AGE: 13 TEXT: 5; 5 inches																				
DELTA-P	15.4	-1.0	1.6	-0.4	-0.2	-1.4	1.4	-2.9	0.8*	2.8	0.2	-1.6	2.4*	-7.0#	0.8	1.7	-0.6	-1.5	1.0	-0.6
STD ERR OF DP		1.6	1.8	1.5	1.9	0.9	0.9	1.6	0.4	2.7	2.6	1.3	1.1	2.0	3.8	1.3	2.3	2.4	2.8	1.9
STD ERR OF P	1.0	1.8	2.2	1.7	2.2	1.2	1.4	2.0	1.0	2.9	2.8	1.4	1.6	2.0	4.0	1.4	2.5	2.7	3.3	1.8
AGE: 17																				
DELTA-P	11.9	1.6	-2.0	2.2	-1.9	-2.5#	2.3#	5.9#	-0.9*	0.1	3.3	0.7	-2.1#	-0.6	2.8	0.6	-3.9*	6.3	-0.7	-2.4
STD ERR OF DP		1.3	1.2	1.4	1.3	0.8	0.7	2.0	0.4	2.9	2.5	1.3	0.8	1.7	2.1	1.1	1.6	4.4	3.3	1.7
STD ERR OF P	0.8	1.4	1.3	1.8	1.5	0.9	1.2	2.2	0.8	3.1	2.6	1.5	1.0	1.8	2.1	1.2	1.6	4.7	3.5	1.8
AGE: Ad																				
DELTA-P	7.3	0.7	-0.0	1.3	-1.9*	-1.6#	1.5#	1.8	-0.4	3.3*	0.3	-1.5	-1.6	2.4	1.6	0.6	1.9	-4.0#	0.6	-3.5#
STD ERR OF DP		1.2	1.1	1.1	0.8	0.6	0.5	2.3	0.3	1.4	1.3	0.9	1.0	2.3	1.4	0.9	1.5	1.4	1.9	1.3
STD ERR OF P	0.6	1.4	1.4	1.3	0.8	0.8	0.8	2.2	0.8	1.7	1.4	0.9	1.2	2.4	1.5	1.2	1.6	1.3	1.9	1.4
RESPONSE: 21 AGE: 13 TEXT: 4; 4 inches																				
DELTA-P	5.0	-0.1	-0.6	0.6	-0.0	0.2	-0.2	0.4	-0.3	0.5	-0.8	-0.8	-0.3	5.1*	3.9*	0.0	-1.5	-2.5*	-1.4	-0.4
STD ERR OF DP		0.9	1.0	0.8	0.7	0.5	0.5	1.4	0.3	1.7	1.3	0.8	0.6	2.5	1.7	0.8	1.0	1.2	1.0	1.4
STD ERR OF P	0.5	1.1	1.2	1.0	0.7	0.8	0.6	1.5	0.5	1.8	1.4	0.9	0.8	2.6	1.9	0.9	0.9	1.2	0.9	1.5
AGE: 17																				
DELTA-P	3.4	-0.3	-0.4	-0.1	0.8	-0.5	0.4	2.8	-0.4	1.5	0.8	0.6	-1.0	4.4#	-1.3	0.2	-0.9	0.8	-3.4#	0.3
STD ERR OF DP		0.8	0.6	0.7	0.9	0.4	0.4	1.3	0.2	1.8	1.0	0.6	0.5	1.4	0.9	0.7	0.7	1.3	0.4	0.9
STD ERR OF P	0.4	0.9	0.6	0.8	1.1	0.6	0.6	1.3	0.5	2.0	1.1	0.7	0.6	1.5	0.9	0.9	0.7	1.4	0.0	0.9

EXERCISE: RE16

A map is to be drawn so that 1/4 inch represents 5 miles. If the real distance between 2 points is 20 miles, how many inches apart should these points be on the map?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad TEXT: 4; 4 inches																				
DELTA-P	5.6	0.8	1.1	-0.1	-1.6*	-1.6#	1.5#	7.0#	-0.8*	1.5	1.2	-0.3	-2.0*	1.8	-1.5	-0.2	-2.9	4.1	3.3	-2.8*
STD ERR OF DP		0.9	1.0	0.9	0.7	0.6	0.5	2.4	0.3	1.2	1.5	1.0	1.0	1.7	2.0	0.7	1.6	2.9	2.2	1.2
STD ERR OF P	0.5	0.9	1.3	1.1	0.7	0.8	0.8	2.7	0.5	1.3	1.6	1.1	1.2	1.8	2.1	0.6	1.5	3.2	2.4	1.2
RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	20.1	9.3#	-0.4	-4.2#	-3.3*	-1.1	1.1	20.7#	-4.3#	6.9	10.5#	-0.5	-6.3#	11.5#	3.5	-0.1	0.2	1.8	-3.3	-7.2*
STD ERR OF DP		2.6	1.8	1.7	1.5	1.0	0.9	3.3	0.7	3.6	3.4	1.5	1.1	3.8	5.3	1.6	3.2	2.9	2.3	3.0
STD ERR OF P	1.1	3.1	2.0	2.0	1.4	1.4	1.5	3.6	1.0	4.0	3.8	1.7	1.3	3.8	5.6	1.7	3.7	2.9	2.5	3.1
AGE: 17																				
DELTA-P	10.3	6.6*	-1.3	-2.3	-2.0	[illegible]	2.0#	14.8#	-2.6#	10.0*	5.3	-1.4	-4.2#	10.3#	4.3	-2.7*	0.8	3.1	-4.6*	-3.1*
STD ERR OF DP		2.9	1.4	1.3	1.7	0.8	0.7	3.2	0.7	4.1	2.8	1.1	1.0	3.4	3.8	1.2	2.7	3.0	2.1	1.5
STD ERR OF P	1.0	3.6	1.3	1.2	1.9	1.2	1.4	3.8	0.9	4.7	3.3	1.2	0.9	3.6	4.1	1.3	3.3	3.2	2.2	1.2
AGE: Ad																				
DELTA-P	6.8	-0.1	-0.5	-0.3	1.0	-1.2	1.1	14.7#	-2.1#	2.1	3.2	-1.3	-2.5#	5.8*	-2.4	0.1	3.7	0.9	-2.3	-4.3#
STD ERR OF DP		1.2	1.0	1.1	1.4	0.7	0.6	3.0	0.4	1.2	2.0	0.9	1.0	2.5	1.9	1.0	3.3	2.5	1.3	1.3
STD ERR OF P	0.7	1.2	1.1	1.2	1.7	0.9	1.0	3.3	0.6	1.3	2.3	1.0	1.1	2.6	1.8	1.2	3.5	2.6	1.3	1.2
RESPONSE: 23 AGE: 13 TEXT: 1 1/4; 1 1/4 inches; 5/4; 5/4 inches																				
DELTA-P	5.0	-2.3#	-0.4	1.1	1.3	-0.3	0.3	-1.1	0.2	-1.9	-1.3	1.3	0.7	-1.2	-1.0	-1.6*	3.7*	0.1	-0.3	2.2
STD ERR OF DP		0.8	0.9	0.9	1.2	0.5	0.5	1.1	0.2	1.5	1.2	0.9	0.7	1.4	1.8	0.7	1.8	1.1	1.6	1.6
STD ERR OF P	0.6	0.7	1.0	1.1	1.4	0.7	0.8	1.1	0.7	1.5	1.1	1.0	1.1	1.4	1.9	0.8	2.0	1.0	1.7	1.6
AGE: 17																				
DELTA-P	4.7	-0.0	-0.3	-0.5	0.9	0.7	-0.6	-1.2	0.3	1.1	-1.0	0.5	0.1	-2.2#	1.3	0.9	0.4	-2.6*	0.8	-0.9
STD ERR OF DP		0.8	0.9	0.8	0.9	0.5	0.5	1.1	0.2	1.7	0.8	0.8	0.6	0.7	1.1	0.6	1.3	1.1	1.6	1.3
STD ERR OF P	0.5	0.9	1.0	0.9	1.1	0.8	0.7	1.1	0.6	1.7	0.8	1.1	0.7	0.7	1.2	0.8	1.5	1.0	1.7	1.4
AGE: Ad																				
DELTA-P	4.2	-0.9	2.1	-0.3	-1.2	1.2	-1.1	-1.6	0.4*	0.7	-1.3	1.1	-1.2	0.4	-0.6	-0.5	-1.8	0.8	-0.6	2.9
STD ERR OF DP		0.9	1.2	0.7	0.8	0.7	0.6	1.1	0.2	0.9	1.0	1.1	0.8	1.8	1.6	0.6	1.3	1.7	1.4	2.9
STD ERR OF P	0.6	1.0	1.6	0.7	0.8	1.1	0.6	1.1	0.7	1.0	0.9	1.5	0.8	1.5	1.7	0.6	1.3	1.7	1.5	3.2
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	11.3	1.8	-0.0	-0.9	-0.6	-2.4#	2.4#	9.5#	-2.4#	6.5	0.4	0.1	-5.3#	14.6#	0.1	0.3	-1.1	3.8	-6.7#	-3.1
STD ERR OF DP		1.9	1.3	1.2	1.7	0.6	0.6	2.5	0.5	3.2	2.2	1.2	0.8	3.2	2.3	1.4	2.5	2.2	1.4	2.9
STD ERR OF P	0.9	2.3	1.4	1.3	2.0	1.1	1.1	2.8	0.9	3.4	2.5	1.4	0.9	3.3	2.3	1.6	2.7	2.4	1.3	3.1
AGE: 17																				
DELTA-P	7.7	1.3	0.3	-0.6	-0.7	-2.3#	2.1#	13.1#	-3.0#	13.0#	6.0#	0.2	-5.2#	8.2#	-1.1	-1.0	2.3	1.0	-0.5	-5.3#
STD ERR OF DP		1.3	1.1	1.1	1.4	0.7	0.6	2.6	0.5	3.0	2.0	1.1	0.7	2.7	1.7	0.9	1.8	3.7	1.4	1.0
STD ERR OF P	0.7	1.4	1.1	1.3	1.7	0.8	1.1	3.0	0.6	3.1	2.3	1.4	0.6	3.0	1.7	0.9	1.9	4.0	1.6	0.8
AGE: Ad																				
DELTA-P	9.1	3.6	-1.6	-2.6*	1.5	-3.8#	3.5#	16.0#	-2.9#	8.1#	2.6	-4.1#	-6.5#	9.8#	0.5	0.5	-1.5	-1.1	-1.6	-5.2#
STD ERR OF DP		2.3	1.6	1.3	1.6	0.7	0.7	2.9	0.6	1.8	2.1	0.9	1.2	3.5	2.1	0.9	2.3	2.2	1.8	2.0
STD ERR OF P	0.9	2.7	1.8	1.2	1.9	1.2	1.2	3.3	0.7	2.3	2.1	0.9	1.2	3.7	2.2	1.5	2.6	2.1	1.7	2.0

RE17
OBJ IV

If a jet plane flies at an average speed of 600 miles per hour, about how long will it take to travel 2,975 miles? (Express your answer to the NEAREST WHOLE NUMBER of hours.)

ANSWER ______________________

Report #: RE17

NAEP #: C70006-1

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		07-15
National P-value:		
	RE17	2.94

Timing: (in seconds)

	Stimulus:	15
	Response:	41
RE17	Exercise total:	56

SCORING GUIDE
RE17
C70006-1

00 = No Response

10 = 5; 5 hours

20 = 4.95; 4.95 hours; attempt to divide 2975 by 600 or 3000 by 600 with no answer or wrong answer

21 = 4; 4 hours

22 = 1,785,000 hours or attempt to multiply 600 x 2975

23 = Other Unacceptable

24 = 2375; 3575; 8975; 12375; 13575; attempt to add or subtract 600 and 2975

39 = I Don't Know.

EXERCISE: BE17

If a jet plane flies at an average speed of 600 miles per hour, about how long will it take to travel 2,975 miles? (Express your answer to the NEAREST WHOLE NUMBER of hours)

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.4	0.4	-0.2	-0.8	0.6	0.1	-0.1	1.5	-0.8#	2.0	3.5	-1.1#	-1.4#	0.9	0.7	-0.1	-1.4*	2.3	-0.3	-1.2*
STD ERR OF DP		0.7	0.7	0.5	1.0	0.2	0.2	1.2	0.3	1.5	2.4	0.4	0.4	1.2	1.7	0.5	0.6	1.9	1.1	0.5
STD ERR OF P	0.4	0.7	0.8	0.4	1.3	0.4	0.5	1.4	0.3	1.6	2.6	0.5	0.3	1.2	1.8	0.5	0.5	2.2	1.2	0.7
RESPONSE: 10* AGE: 9 TEXT: 5; 5 hours																				
DELTA-P	2.9	-0.8	0.2	-0.3	0.8	1.1#	-1.1#	-1.1	0.2	0.9	-1.4	-0.5	0.7	-0.9	-1.7*	-0.7	0.5	-0.9	1.7	1.7
STD ERR OF DP		0.7	0.7	0.7	0.8	0.4	0.4	0.7	0.2	2.2	1.2	0.6	0.7	0.9	0.7	0.6	1.4	0.8	1.2	1.4
P-VALUE	2.9	2.2	3.1	2.7	3.8	4.0	1.9	1.9	3.2	3.8	1.5	2.5	3.6	2.1	1.2	2.2	3.5	2.0	4.7	4.7
STD ERR OF P	0.4	0.7	0.7	0.9	1.0	0.6	0.4	0.7	0.5	2.2	1.1	0.7	0.8	0.9	0.7	0.6	1.5	0.8	1.3	1.5
RESPONSE: 20 AGE: 9 TEXT: 4.95; 4.95 hours; attempt to divide 2975 by 600 or 3000 by 600 with no answer or wrong answer																				
DELTA-P	0.7	0.7	-0.5	-0.1	-0.1	-0.5	0.5*	-0.2	0.1	-0.8#	0.9	-0.2	0.3	0.3	-0.8#	0.4	-0.0	-0.5	0.1	-0.4
STD ERR OF DP		0.7	0.3	0.4	0.4	0.3	0.3	0.5	0.1	0.3	1.1	0.2	0.4	1.0	0.3	0.5	0.5	0.3	0.6	0.4
STD ERR OF P	0.3	1.0	0.2	0.4	0.4	0.2	0.5	0.5	0.3	0.0	1.2	0.4	0.5	1.0	0.0	0.7	0.5	0.3	0.6	0.4
RESPONSE: 21 AGE: 9 TEXT: 4; 4 hours																				
DELTA-P	5.0	-2.2#	0.3	0.2	1.5	1.1*	-1.1*	-2.6#	0.5*	-1.4	-2.6	0.8	1.1	-1.7	1.4	-0.4	0.0	1.2	-1.4	1.5
STD ERR OF DP		0.9	1.0	0.9	1.1	0.5	0.5	0.9	0.2	2.1	1.7	1.3	0.8	1.3	1.8	0.7	1.2	1.9	0.9	1.6
STD ERR OF P	0.6	0.9	1.1	1.1	1.3	0.8	0.7	0.8	0.7	2.0	1.7	1.5	1.0	1.2	2.0	0.8	1.2	2.1	0.9	1.9
RESPONSE: 22 AGE: 9 TEXT: 1,785,000 hours or attempt to multiply 600 x 2975																				
DELTA-P	1.1	-0.2	0.4	0.1	-0.2	-0.2	0.2	-1.1#	0.2#	-0.6	-0.4	0.3	0.7	-1.1#	-0.5	-0.3	0.8	0.1	1.1	-0.6
STD ERR OF DP		0.4	0.6	0.4	0.3	0.2	0.2	0.2	0.1	0.5	0.7	0.5	0.4	0.2	0.6	0.3	1.0	0.6	0.6	0.4
STD ERR OF P	0.2	0.4	0.7	0.4	0.4	0.3	0.4	0.0	0.3	0.5	0.7	0.6	0.6	0.0	0.6	0.3	1.1	0.7	0.7	0.4
RESPONSE: 23 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	40.2	2.1	-2.3	-1.4	1.5	6.0#	-6.0#	8.6#	-1.6*	2.8	5.0	2.0	0.3	6.2	4.0	-2.4	5.9	5.6	-5.3	-5.1
STD ERR OF DP		2.9	3.1	2.4	3.0	1.3	1.3	2.6	0.7	4.3	5.9	2.3	1.6	4.0	5.2	2.3	4.1	3.9	3.2	3.7
STD ERR OF P	1.6	3.4	3.5	2.7	3.6	2.3	1.7	2.5	1.8	4.5	6.1	2.7	2.2	4.2	5.3	2.8	4.4	4.8	3.5	4.0
RESPONSE: 24 AGE: 9 TEXT: 2375; 3575; 8975; 12375; 13575; attempt to add or subtract 600 and 2975																				
DELTA-P	9.9	0.9	-2.9*	1.3	0.2	-2.4#	2.4#	-2.4	0.7*	-2.3	-1.4	0.3	0.8	-3.4	-1.7	0.9	-1.4	-2.1	2.2	1.5
STD ERR OF DP		1.7	1.4	1.5	1.4	0.6	0.6	1.3	0.3	2.2	2.1	1.4	1.0	2.0	2.6	1.4	2.1	2.1	2.0	2.3
STD ERR OF P	0.9	1.9	1.5	1.8	1.6	0.9	1.2	1.3	1.0	2.4	2.2	1.8	1.3	1.9	2.7	1.7	2.2	2.4	2.2	2.5
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	37.7	-1.0	5.1	0.8	-4.3	-5.1#	5.2#	-2.7	0.7	-0.5	-3.5	-1.6	-2.4	-0.5	-1.4	2.6	-4.5	-5.6	1.9	2.8
STD ERR OF DP		1.9	3.0	2.2	2.9	1.5	1.5	2.0	0.7	4.2	5.1	2.3	1.5	3.8	3.3	1.8	2.9	4.3	2.4	4.3
STD ERR OF P	1.4	1.7	3.6	2.4	3.5	2.2	1.9	2.2	1.6	4.4	5.3	2.5	2.0	4.0	3.3	2.3	3.3	4.7	2.6	4.7

EF01
OBJ II

$4^3 =$

ANSWER ____________

SCORING GUIDE
EF01
F00003-23

00 = No Response

10 = 64

11 = 4 x 4 x 4

20 = 12; (4 + 4 + 4); (3 x 4)

21 = 7; (3 + 4)

22 = 48; (4 x 4 x 3)

23 = 444

24 = Other Unacceptable

25 = 32

39 = I Don't Know.

Report #: EF01

NAEP #: F00003-23

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17
Package-Exercise:		04-22	10-08
National P-value:			
	EF01	49.61	73.93

Timing: (in seconds)

	Stimulus:	2	1
	Response:	21	21
EF01	Exercise total:	23	22

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                                               REGION                   SEX             RACE                PARENTAL EDUCATION                    SIZE-AND-TYPE OF COMMUNITY
                                     SOUTH                   NORTH                                                   SOME    GRAD    POST     LOW EXTREME   SMALL  MEDIUM    MAIN   URBAN    HIGH
                            NATION    EAST    WEST CENTRAL    EAST    MALE  FEMALE   BLACK   WHITE   NO HS      HS      HS      HS   METRO   RURAL  PLACES    CITY BIG CTY  FRINGE   METRO

EXERCISE: RP01

4 to the 3rd power equals

RESPONSE: 00   AGE: 13    TEXT: No Response.

    DELTA-P                    2.4    -0.6     1.4    -0.9    -0.0    1.3#   -1.4#    4.0#   -0.6#    -1.1    -1.1     0.1    -0.8     1.5    -0.6   -1.8*     0.4    -1.0     4.9   -2.4#
    STD ERR OF DP                      1.0     2.3     0.9     1.0     0.5     0.5     1.4     0.2     1.0     1.1     0.5     0.6     1.1     1.1     0.8     1.2     1.1     3.6     0.8
    STD ERR OF P               0.8     0.7     3.0     0.4     0.9     1.3     0.4     2.0     0.8     0.6     0.8     0.9     1.3     1.6     0.8     0.2     1.0     0.9     4.3     0.0

               AGE: 17

    DELTA-P                    0.8     0.5    -0.1    -0.4     0.0     0.2    -0.2     1.4    -0.2     0.0     0.6    -0.3    -0.1     1.2     0.9    -0.3    -0.4     2.1   -0.8#    -0.5
    STD ERR OF DP                      0.5     0.3     0.2     0.3     0.2     0.2     0.8     0.1     0.6     0.6     0.2     0.2     1.1     0.8     0.2     0.4     1.5     0.2     0.3
    STD ERR OF P               0.2     0.6     0.4     0.2     0.4     0.3     0.2     0.9     0.2     0.6     0.7     0.2     0.3     1.2     0.9     0.2     0.4     1.6     0.0     0.3

RESPONSE: 01*  AGE: 13    TEXT: All Acceptable Responses.

    DELTA-P                   49.6    -4.4  -11.0#     0.5   14.1#   -3.1#    3.3#  -23.5#    6.2#  -15.6#  -15.2#     0.4   14.5#  -19.5#    -8.8    5.4*    -5.3    -5.5     6.6   18.1#
    STD ERR OF DP                      3.3     2.7     2.7     3.1     1.1     1.2     3.0     1.0     4.1     3.3     1.8     1.5     3.8     5.0     2.6     4.2     4.4     5.1     5.0
    P-VALUE                   49.6    45.2    38.6    50.1    63.7    46.6    52.9    26.1    55.8    34.0    34.4    50.0    64.1    30.1    40.8    55.0    44.4    44.1    56.2    67.7
    STD ERR OF P               1.8     3.6     3.1     3.0     3.8     2.2     2.1     2.7     1.9     4.4     3.9     2.5     2.2     3.5     5.4     3.2     4.3     4.6     5.5     5.2

               AGE: 17

    DELTA-P                   73.9   -4.3*    -0.3     1.5     2.2    -1.7     1.5  -20.2#    4.0#  -16.9#  -15.8#    -0.9   11.7#  -17.1#    -6.1     0.8     1.4    -9.5     4.6   13.8#
    STD ERR OF DP                      1.8     2.1     2.4     1.7     1.2     1.1     3.5     0.7     3.9     2.4     1.6     1.3     4.6     3.3     1.5     2.5     7.6     2.4     3.1
    P-VALUE                   73.9    69.7    73.7    75.4    76.1    72.3    75.5    53.7    77.9    57.1    58.1    73.0    85.7    56.8    67.9    74.7    75.4    64.4    78.5    87.7
    STD ERR OF P               1.2     1.8     2.4     3.1     1.8     1.9     1.5     4.0     1.2     4.1     2.7     1.9     1.5     4.8     3.4     1.9     2.6     7.7     2.5     3.1

RESPONSE: 10   AGE: 13    TEXT: 64

    DELTA-P                   47.4    -5.9  -10.6#     1.0   14.4#   -2.5*    2.6*  -26.6#    6.7#  -16.4#  -14.7#     0.2   15.1#  -20.4#    -9.1     5.2    -5.5    -4.3     6.6   18.9#
    STD ERR OF DP                      3.4     2.5     2.7     3.1     1.1     1.2     2.9     0.9     3.8     3.1     1.9     1.5     3.8     5.0     2.6     3.7     4.5     4.9     4.9
    STD ERR OF P               1.8     3.7     2.7     3.1     3.7     2.1     2.1     2.6     1.9     4.2     3.8     2.4     2.2     3.4     5.2     3.4     3.7     4.7     5.2     5.1

               AGE: 17

    DELTA-P                   73.6   -4.6*    -0.5     1.8     2.4    -1.7     1.5  -20.6#    4.2#  -17.0#  -15.7#    -1.0   11.8#  -17.6#    -6.4     0.8     1.4    -9.7    4.9*   13.9#
    STD ERR OF DP                      1.9     2.2     2.4     1.8     1.2     1.1     3.4     0.7     3.9     2.5     1.6     1.3     4.5     3.3     1.5     2.6     7.9     2.4     3.2
    STD ERR OF P               1.2     1.8     2.5     3.1     1.9     1.9     1.5     3.9     1.2     4.2     2.7     1.9     1.5     4.6     3.4     1.9     2.7     8.1     2.5     3.1

RESPONSE: 11   AGE: 13    TEXT: 4 x 4 x 4

    DELTA-P                    2.2     1.5    -0.4    -0.5    -0.3    -0.6     0.6    3.1#   -0.5#     0.8    -0.5     0.1    -0.6     0.9     0.3     0.2     0.3    -1.3     0.0    -0.7
    STD ERR OF DP                      0.8     0.7     0.5     0.6     0.3     0.3     0.9     0.2     1.0     0.8     0.4     0.4     0.9     1.2     0.5     1.2     0.7     0.8     0.9
    STD ERR OF P               0.4     0.9     0.8     0.5     0.6     0.4     0.6     1.0     0.4     1.1     0.8     0.6     0.4     0.9     1.3     0.6     1.3     0.7     0.8     0.9

               AGE: 17

    DELTA-P                    0.4     0.3     0.3   -0.3#    -0.2     0.0    -0.0     0.4   -0.2*     0.2    -0.1     0.0    -0.1     0.5     0.3    -0.0     0.0     0.2   -0.3#    -0.2
    STD ERR OF DP                      0.3     0.2     0.1     0.2     0.1     0.1     0.5     0.1     0.5     0.2     0.2     0.1     0.8     0.4     0.2     0.2     0.5     0.1     0.2
    STD ERR OF P               0.1     0.4     0.3     0.1     0.2     0.2     0.2     0.6     0.1     0.5     0.2     0.3     0.1     0.8     0.4     0.2     0.2     0.6     0.0     0.2

RESPONSE: 20   AGE: 13    TEXT: 12; (4 + 4 + 4); (4 x 3)

    DELTA-P                   12.4     1.0     3.7     1.7   -6.4#     0.0    -0.0    4.0*   -1.4#     1.7     2.9     0.0   -3.1#     5.1    -0.0    -1.4     2.3     5.9    -2.0   -8.6#
    STD ERR OF DP                      1.6     2.0     1.4     1.2     0.7     0.7     1.9     0.5     2.4     2.1     1.3     1.1     2.6     2.7     1.4     2.6     3.2     2.2     1.4
    STD ERR OF P               1.0     1.8     2.5     1.6     1.0     1.2     1.2     2.1     1.0     2.7     2.2     1.7     1.3     2.7     2.7     1.6     2.7     3.5     2.5     1.2

               AGE: 17

    DELTA-P                    7.3     0.9    -0.4     0.9    -1.5    -0.3     0.3    6.2#   -1.0#    7.1#     2.5     1.5   -4.5#     4.7     4.0     0.6    -1.7    -0.0    -0.1   -6.3#
    STD ERR OF DP                      1.4     1.2     1.3     1.2     0.7     0.6     1.9     0.4     2.4     1.4     1.2     0.7     3.1     2.0     1.0     1.2     2.3     1.5     0.9
    STD ERR OF P               0.7     1.6     1.4     1.5     1.3     1.1     0.9     2.2     0.7     2.8     1.5     1.4     0.6     3.5     2.0     1.2     1.2     2.5     1.7     0.6

RESPONSE: 21   AGE: 13    TEXT: 7; (3 + 4)

    DELTA-P                    1.1     0.3     0.1     0.2    -0.6     0.2    -0.2     1.5   -0.4*     1.6     0.5    -0.1   -0.8#     0.7     1.4    -0.1     0.2   -1.1#    -0.2   -1.1#
    STD ERR OF DP                      0.5     0.4     0.6     0.4     0.3     0.3     0.9     0.2     1.1     0.8     0.4     0.3     0.7     1.1     0.5     0.7     0.3     0.7     0.3
    STD ERR OF P               0.3     0.6     0.5     0.7     0.4     0.4     0.4     0.9     0.3     1.2     0.9     0.5     0.1     0.7     1.2     0.6     0.8     0.0     0.8     0.0
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EXERCISE: RF01

4 to the 3rd power equals

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: 17	TEXT: 7; (3 + 4)																			
DELTA-P	0.3	0.1	0.6	-0.3#	-0.3#	-0.1	0.1	0.4	-0.1*	1.2#	0.5	0.0	-0.3#	0.6#	-0.3#	-0.2	1.0	-0.3#	-0.3#	-0.3#
STD ERR OF DP		0.3	0.3	0.1	0.1	0.1	0.1	0.4	0.1	0.3	0.5	0.2	0.1	0.2	0.1	0.1	0.6	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.4	0.0	0.0	0.1	0.2	0.5	0.1	0.3	0.5	0.3	0.0	0.2	0.0	0.1	0.7	0.0	0.0	0.0
RESPONSE: 22 AGE: 13	TEXT: 48; (4 x 4 x 3)																			
DELTA-P	1.3	-0.5	-0.8*	0.5	0.7	0.1	-0.1	-0.4	0.2*	0.9	-0.1	-0.4	0.5	-1.0#	-0.4	-0.2	-0.2	-1.1#	0.4	3.8#
STD ERR OF DP		0.3	0.3	0.5	0.5	0.3	0.3	0.5	0.1	1.1	0.8	0.4	0.4	0.4	0.6	0.4	0.6	0.3	0.9	1.5
STD ERR OF P	0.3	0.2	0.3	0.7	0.6	0.3	0.4	0.6	0.3	1.2	0.9	0.3	0.5	0.3	0.6	0.5	0.6	0.2	1.0	1.6
AGE: 17																				
DELTA-P	1.8	-0.5	0.4	-0.9*	1.1	0.1	-0.1	2.1*	-0.4*	-0.1	1.9	0.4	-0.9#	0.0	-0.7	-0.7	1.2	3.8*	-0.4	-0.7
STD ERR OF DP		0.5	0.6	0.4	0.7	0.3	0.3	0.9	0.2	1.1	1.3	0.4	0.4	0.9	0.7	0.4	1.0	1.6	0.7	0.6
STD ERR OF P	0.3	0.5	0.7	0.4	0.9	0.4	0.4	1.0	0.3	1.2	1.5	0.4	0.4	1.0	0.7	0.4	1.1	1.7	0.8	0.5
RESPONSE: 23 AGE: 13	TEXT: 444																			
DELTA-P	0.1	-0.0	-0.1	0.2	-0.1	-0.1	0.1	0.5	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.5	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1
STD ERR OF P	0.1	0.1	0.0	0.2	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.0	0.0
AGE: 17																				
DELTA-P	0.0	0.1	-0.0	0.0	-0.0	0.0	-0.0	0.1	-0.0	-0.0	0.0	0.0	-0.0	-0.0	0.2	-0.0	-0.0	0.1	-0.0	-0.0
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.3	0.0	0.0	0.1	0.0	0.0
RESPONSE: 24 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	19.5	5.4*	0.3	-1.5	-3.1	0.6	-0.6	10.1#	-1.4#	1.2	12.7#	-1.0	-3.4#	3.0	4.6	-0.2	4.0	-2.1	-4.9*	-4.2
STD ERR OF DP		2.4	1.6	1.8	1.6	0.9	1.0	2.2	0.4	2.5	4.3	1.6	1.3	2.6	4.1	1.2	2.3	2.4	2.0	2.3
STD ERR OF P	1.0	2.8	1.7	2.2	1.6	1.4	1.4	2.2	1.3	2.9	4.7	1.8	1.5	2.6	4.7	1.5	2.4	2.4	2.1	2.4
AGE: 17																				
DELTA-P	9.8	1.2	-1.3	0.3	-0.0	1.8*	-1.7*	5.9#	-1.3#	0.3	6.5#	-0.8	-2.1*	6.5#	2.2	-0.8	1.1	1.4	-1.9	-3.7
STD ERR OF DP		1.5	1.3	1.4	1.3	0.8	0.7	1.9	0.4	2.0	1.6	1.0	1.0	2.1	3.0	1.0	1.8	3.1	1.6	2.4
STD ERR OF P	0.8	1.7	1.5	1.7	1.5	1.3	0.9	2.2	0.9	2.0	1.7	1.2	1.3	2.1	3.3	1.2	1.8	3.2	1.8	2.5
RESPONSE: 25 AGE: 13	TEXT: 32																			
DELTA-P	1.9	-0.5	0.8	-0.5	0.2	-0.6	0.6	1.0	-0.0	-1.7#	0.3	1.2*	-0.7	1.9	0.2	-0.0	-0.8	1.9	-1.3*	-1.3*
STD ERR OF DP		0.5	0.7	0.5	0.9	0.3	0.3	1.0	0.2	0.4	1.0	0.6	0.4	1.8	0.8	0.6	0.7	2.3	0.5	0.5
STD ERR OF P	0.4	0.4	0.9	0.5	1.2	0.4	0.6	1.1	0.5	0.2	1.0	0.7	0.5	1.9	0.8	0.6	0.6	2.6	0.4	0.4
AGE: 17																				
DELTA-P	1.1	0.7	0.2	-0.5	-0.2	0.3	-0.3	0.6	-0.2	0.4	-0.3	0.4	-0.1	0.6	0.5	-0.4	0.3	0.4	-0.0	-0.3
STD ERR OF DP		0.6	0.5	0.4	0.4	0.3	0.2	0.9	0.2	0.8	0.5	0.4	0.3	1.0	1.0	0.3	0.6	0.9	0.6	0.5
STD ERR OF P	0.3	0.7	0.6	0.4	0.4	0.5	0.2	1.0	0.2	0.8	0.5	0.6	0.3	1.1	1.1	0.3	0.7	1.0	0.7	0.5
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	11.8	-0.8	5.6*	-0.2	-4.7*	1.5*	-1.6*	2.8	-2.5#	13.0#	0.2	-0.1	-6.2#	8.4	3.7	-1.5	-0.8	2.4	-3.5	-4.3
STD ERR OF DP		2.0	2.4	2.1	1.9	0.7	0.8	2.4	0.9	5.0	2.7	1.1	1.2	4.8	4.8	1.6	2.2	2.9	2.3	3.0
STD ERR OF P	1.3	1.9	3.1	2.5	2.0	1.6	1.4	2.6	1.1	5.8	2.7	1.7	1.0	5.2	5.3	1.8	2.1	3.2	2.4	3.2
AGE: 17																				
DELTA-P	5.0	1.2	1.0	-0.7	-1.2	-0.4	0.4	3.6*	-0.7*	8.0#	4.1#	-0.3	-3.7#	3.6	-0.7	1.0	-2.8#	2.1	-1.0	-1.8
STD ERR OF DP		1.1	0.9	0.8	0.9	0.5	0.5	1.5	0.3	2.1	1.6	0.8	0.5	2.3	1.6	0.7	1.0	2.9	1.1	1.1
STD ERR OF P	0.5	1.3	1.0	1.0	1.0	0.6	0.8	1.7	0.6	2.2	1.7	1.0	0.4	2.4	1.7	0.9	1.0	3.0	1.2	1.0

FF02
OBJ I

$3^0 =$

ANSWER ____________________

Report #: FF02

NAEP #: F00007-23

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		02-23	01-06
National P-value:			
	FF02	16.68	20.13

Timing: (in seconds)

		13	17
	Stimulus:	2	1
	Response:	21	21
FF02	Exercise total:	23	22

SCORING GUIDE
FF02
F00007-23

00 = No Response

10 = 1

11 = 3 degrees

12 = Any other number to zero power, e.g., 69 to zero power

20 = 0

21 = 3

22 = Other Unacceptable

39 = I Don't Know.

EXERCISE: RF02

3 to the zero power equals

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	1.7	-0.7	1.2	-0.9	0.5	-0.2	0.2	0.9	-0.5*	0.2	0.5	0.7	-0.6	2.0	0.0	-1.1*	0.4	0.6	1.2	-0.8
STD ERR OF DP		0.6	0.9	0.5	0.9	0.3	0.3	0.9	0.2	0.7	0.9	0.5	0.4	1.7	0.9	0.5	0.9	1.1	1.6	0.7
STD ERR OF P	0.4	0.5	1.1	0.4	1.1	0.4	0.6	1.0	0.4	0.7	1.0	0.8	0.5	1.9	0.9	0.4	0.9	1.3	1.8	0.6
AGE: 17																				
DELTA-P	1.8	-0.8	-0.9	-1.1	2.6	-0.1	0.1	5.2	-0.8	2.3	0.0	-0.7	-1.1*	2.1	0.3	-1.3*	-0.4	6.2	-0.7	-0.8
STD ERR OF DP		0.6	0.6	0.6	1.4	0.6	0.5	3.1	0.6	1.5	1.0	0.7	0.5	1.7	1.3	0.5	0.9	3.7	0.9	0.8
STD ERR OF P	0.5	0.4	0.5	0.4	1.9	0.4	1.0	3.5	0.3	1.8	0.9	0.4	0.3	2.0	1.3	0.3	0.8	4.1	0.8	0.7
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	16.7	-0.5	-1.8	0.2	2.1	1.2	-1.2	-5.0*	1.4*	-1.9	-1.2	0.5	2.8*	-8.2*	6.6	-1.0	4.3	-3.7	1.2	-1.0
STD ERR OF DP		2.1	1.9	2.4	2.3	0.9	0.9	2.1	0.5	3.1	2.6	1.6	1.2	3.0	7.2	1.8	3.8	3.2	3.8	2.9
P-VALUE	16.7	16.2	14.9	16.9	18.7	17.8	15.5	11.7	18.0	14.8	15.5	17.2	19.5	8.5	23.3	15.7	21.0	13.0	17.9	15.7
STD ERR OF P	1.3	2.2	2.0	3.1	2.6	1.7	1.5	2.0	1.6	3.2	2.9	2.0	2.0	2.7	7.9	1.8	4.2	3.2	4.1	2.9
AGE: 17																				
DELTA-P	28.1	-4.1	1.5	-2.0	3.6	2.2	-2.1	-16.1*	2.7*	-14.0*	-14.8*	-4.7*	11.3*	-10.8*	-11.0*	-1.0	4.9	-4.1	-1.2	15.5*
STD ERR OF DP		3.2	4.1	2.4	3.0	1.8	1.8	2.7	0.6	3.0	2.5	2.0	1.5	4.6	3.5	2.5	3.8	4.3	4.6	4.2
P-VALUE	28.1	24.1	29.6	26.2	31.7	30.3	26.0	12.1	30.8	14.1	13.3	23.5	39.5	17.3	17.1	27.1	33.0	24.0	26.9	43.7
STD ERR OF P	1.9	3.4	5.3	2.3	3.3	3.0	2.0	2.5	2.1	2.4	2.3	1.9	2.4	3.9	3.1	3.5	4.1	4.2	5.1	4.4
RESPONSE: 10 AGE: 13	TEXT: 1																			
DELTA-P	14.1	-0.5	-2.2	-0.2	2.9	0.9	-0.9	-6.6*	1.6*	-4.1	-2.0	0.0	3.5*	-8.9*	6.5	-1.6	3.9	-2.6	0.6	0.7
STD ERR OF DP		2.0	2.0	3.0	2.5	0.8	0.8	2.1	0.5	2.5	2.5	1.4	1.1	2.7	7.5	1.7	4.2	3.2	3.9	3.1
STD ERR OF P	1.5	1.8	1.9	3.9	2.8	1.7	1.7	1.7	1.8	2.7	2.8	1.9	2.2	2.4	8.4	1.7	4.5	3.1	4.1	3.0
AGE: 17																				
DELTA-P	27.3	-4.2	1.9	-2.3	3.6	2.6	-2.5	-17.5*	2.9*	-15.7*	-15.0*	-4.8*	11.8*	-12.6*	-12.1*	-0.7	4.9	-3.7	-0.8	15.4*
STD ERR OF DP		3.3	4.2	2.5	3.1	1.7	1.7	2.6	0.6	2.9	2.6	1.9	1.5	4.1	3.2	2.5	4.0	4.3	4.7	4.3
STD ERR OF P	1.9	3.5	5.5	2.3	3.4	3.0	2.1	2.4	2.1	2.2	2.4	1.9	3.0	3.3	2.6	3.5	4.3	4.1	5.2	4.5
RESPONSE: 11 AGE: 13	TEXT: 3 degrees																			
DELTA-P	1.9	-0.2	0.6	0.1	-0.5	0.4	-0.4	0.3	-0.1	2.3	1.1	0.1	-0.3	1.0	-0.1	0.3	-0.2	-1.0	0.8	-1.0
STD ERR OF DP		0.6	0.7	0.6	0.5	0.3	0.3	0.8	0.2	1.4	1.1	0.4	0.3	1.5	0.5	0.5	0.7	0.7	1.1	0.7
STD ERR OF P	0.4	0.7	0.8	0.8	0.5	0.5	0.4	0.8	0.4	1.5	1.2	0.6	0.5	1.6	0.5	0.7	0.7	0.6	1.2	0.6
AGE: 17																				
DELTA-P	0.5	-0.1	-0.4	0.3	0.2	-0.4*	0.4*	0.7	-0.1	1.9*	0.1	-0.1	-0.2	1.3	1.3	-0.3	-0.3	-0.2	-0.2	-0.2
STD ERR OF DP		0.3	0.2	0.3	0.3	0.1	0.1	0.6	0.1	0.9	0.3	0.2	0.2	0.9	1.1	0.2	0.3	0.4	0.4	0.4
STD ERR OF P	0.1	0.3	0.2	0.4	0.3	0.1	0.3	0.6	0.2	1.0	0.4	0.3	0.2	0.9	1.1	0.1	0.3	0.4	0.4	0.4
RESPONSE: 12 AGE: 13	TEXT: Any other number to the zero power; e.g., 69 to the zero power																			
DELTA-P	0.7	0.2	-0.2	0.3	-0.3	-0.2	0.1	1.2	-0.2	0.0	-0.3	0.4	-0.4	-0.3	0.2	0.3	0.6	-0.1	-0.5	-0.7*
STD ERR OF DP		0.3	0.3	0.4	0.3	0.2	0.2	0.6	0.1	0.7	0.3	0.4	0.2	0.4	0.5	0.3	0.7	0.5	0.3	0.2
STD ERR OF P	0.2	0.4	0.3	0.5	0.3	0.2	0.3	0.7	0.2	0.7	0.3	0.5	0.2	0.4	0.6	0.4	0.7	0.5	0.2	0.0
AGE: 17																				
DELTA-P	0.2	0.2	-0.0	0.0	-0.2	-0.0	0.0	0.8	-0.2	-0.3*	0.2	0.2	-0.3*	0.4	-0.3*	-0.1	0.3	-0.3*	-0.3*	0.3
STD ERR OF DP		0.3	0.2	0.2	0.1	0.1	0.1	0.6	0.1	0.1	0.4	0.2	0.1	0.6	0.1	0.1	0.5	0.1	0.1	0.4
STD ERR OF P	0.1	0.3	0.2	0.2	0.1	0.2	0.2	0.7	0.1	0.0	0.4	0.3	0.0	0.7	0.0	0.1	0.5	0.0	0.0	0.4
RESPONSE: 20 AGE: 13	TEXT: 0																			
DELTA-P	34.4	-1.7	1.5	0.1	-0.0	-1.1	1.1	-7.6*	2.2*	-5.5	-4.6	0.6	3.8*	-8.4*	-13.6*	-2.2	-1.0	3.6	11.9*	5.1
STD ERR OF DP		2.6	2.4	2.7	2.6	1.4	1.4	3.0	0.6	3.9	3.1	1.9	1.2	4.0	2.9	1.8	4.0	4.0	3.8	3.7
STD ERR OF P	1.5	2.8	2.6	3.5	3.0	2.0	2.1	3.0	1.7	4.2	2.9	2.7	2.1	4.0	3.3	2.1	4.4	4.2	4.0	3.8

EXERCISE: RF02

3 to the zero power equals

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: 17	TEXT: 0																			
DELTA-P	34.9	1.7	2.1	2.7	-5.9	1.1	-1.0	-7.0*	0.7	-4.7	-0.5	2.2	-0.6	-1.5	-2.5	2.4	-0.1	-7.0	-3.0	3.2
STD ERR OF DP		2.6	2.9	2.3	3.0	1.6	1.5	3.3	0.6	4.2	2.6	2.0	1.5	4.6	4.1	1.9	2.5	5.8	4.1	4.5
STD ERR OF P	1.6	2.8	3.6	2.5	3.6	2.4	2.0	3.4	1.8	4.3	2.7	2.3	2.5	4.8	4.0	2.6	2.6	6.2	4.5	4.9
RESPONSE: 21 AGE: 13	TEXT: 3																			
DELTA-P	32.1	1.3	1.0	-1.9	0.0	-1.3	1.3	1.1	-0.5	2.6	3.2	0.8	-2.0	0.5	5.6	4.2	-1.8	-2.6	-10.4#	1.4
STD ERR OF DP		2.8	2.7	..1	2.0	1.3	1.2	2.4	0.5	3.7	3.9	1.7	1.1	4.1	6.1	2.4	3.2	4.0	3.9	3.9
STD ERR OF P	1.4	3.3	3.3	2.4	2.1	1.7	2.0	2.6	1.5	4.0	4.2	1.9	1.9	3.9	6.5	2.8	3.2	4.1	4.2	4.0
AGE: 17																				
DELTA-P	25.2	2.5	0.0	-0.5	-1.5	-2.6*	2.5*	8.4#	-1.2#	3.1	6.1*	2.2	-3.9#	3.5	1.2	0.4	-1.3	4.2	4.8	-11.2#
STD ERR OF DP		3.2	2.3	2.0	2.4	1.1	1.0	2.6	0.5	3.4	2.8	1.4	1.1	3.8	4.2	1.6	2.8	2.9	4.6	3.0
STD ERR OF P	1.4	3.7	2.6	2.0	2.8	1.5	1.9	2.6	1.5	3.7	2.8	2.2	1.8	3.7	4.4	1.9	2.9	2.7	5.3	3.3
RESPONSE: 22 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	9.0	2.6	-2.1	1.0	-1.4	1.7*	-1.6#	8.6#	-1.8#	3.0	1.5	-2.2#	-2.8#	8.5#	2.7	0.7	-2.1	1.2	-3.1#	-4.0#
STD ERR OF DP		1.8	1.3	1.4	1.1	0.7	0.6	2.0	0.4	2.1	2.1	0.8	0.8	3.1	2.1	1.2	1.9	1.8	1.2	1.4
STD ERR OF P	0.8	2.2	1.4	1.7	1.1	1.0	1.0	2.3	0.8	2.2	2.3	0.9	0.8	3.8	2.2	1.6	1.9	1.9	1.3	1.3
AGE: 17																				
DELTA-P	3.4	1.5	-1.0	-0.8	0.5	-0.0	0.0	6.8#	-0.8*	0.0	6.1#	0.4	-2.1#	1.7	5.4	0.5	-2.5#	-0.6	-0.1	-2.4#
STD ERR OF DP		1.2	0.6	0.7	0.8	0.5	0.5	2.4	0.3	1.2	2.3	0.7	0.5	1.7	3.3	0.6	0.6	1.1	1.0	0.8
STD ERR OF P	0.5	1.4	0.6	0.8	1.0	0.7	0.7	2.7	0.4	1.1	2.6	0.9	0.3	1.8	3.5	0.7	0.5	1.2	1.2	0.8
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	6.1	-1.0	0.2	1.6	-1.2	-0.2	0.2	2.0	-0.6	1.6	0.6	-0.3	-1.1	5.6*	-1.3	-0.5	0.3	0.9	-0.8	-0.7
STD ERR OF DP		1.4	1.1	1.1	1.0	0.7	0.6	1.8	0.4	1.8	2.0	0.9	0.6	2.6	1.6	1.1	1.7	1.4	2.1	1.6
STD ERR OF P	0.7	1.6	1.3	1.4	1.1	0.9	0.9	1.9	0.8	1.9	2.1	1.1	0.8	2.7	1.6	1.4	1.8	1.5	2.3	1.6
AGE: 17																				
DELTA-P	6.6	-0.8	-1.6	1.6	0.6	-0.6	0.5	2.7	-0.6*	13.3#	3.1	0.5	-3.7#	5.1*	6.7	-0.9	-0.6	1.4	0.2	-4.3#
STD ERR OF DP		1.1	0.9	1.1	1.2	0.7	0.7	1.8	0.3	2.8	1.8	0.9	0.6	2.1	4.9	0.9	1.7	2.3	1.4	1.3
STD ERR OF P	0.6	1.1	1.0	1.3	1.5	1.0	0.9	1.8	0.7	3.0	2.0	1.0	0.6	2.1	5.1	0.9	1.9	2.5	1.6	1.4

RF03
OBJ I

What is the SQUARE ROOT of 16?

ANSWER ____________________

Report #: RF03

NAEP #: F30005-234

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		03-09	02-21	03-21
National P-value:				
	RF03	37.32	75.42	60.36
Timing: (in seconds)				
	Stimulus:	3	2	3
	Response:	16	16	*
RF03	Exercise total:	19	18	*

*Time not limited by paced tape.

SCORING GUIDE
RF03
F30005-234

00 = No Response

10 = 4; -4

11 = (16) under radical

12 = ±4;

20 = 256; 16 squared; 4 to the 4th power

21 = 8

22 = Other Unacceptable

23 = 4 squared; 4 x 4

24 = 8 squared; 64

39 = I Don't Know.

EXERCISE: RP03

What is the SQUARE ROOT of 16?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.9	0.5	0.7	-1.1	0.1	0.9*	-0.8*	5.8#	-1.2#	2.7	-0.1	0.5	-2.3#	7.6#	-2.3*	-1.1	-1.0	2.1	-1.0	-0.5
STD ERR OF DP		0.9	0.8	0.8	0.7	0.4	0.4	1.4	0.3	1.8	2.0	0.6	0.4	2.0	1.1	0.6	1.0	1.5	1.2	1.2
STD ERR OF P	0.5	1.1	0.8	0.9	0.8	0.7	0.6	1.5	0.4	1.9	2.2	0.7	0.4	2.0	1.1	0.8	1.1	1.5	1.2	1.2
AGE: 17																				
DELTA-P	2.6	2.5	-1.1	-0.2	-0.9	0.5	-0.4	6.4#	-1.4#	3.5	2.8	-1.0	-1.5#	3.3#	1.5	-1.2	-2.2#	11.6	-1.6	-2.6#
STD ERR OF DP		2.5	0.9	1.0	0.8	0.6	0.5	2.2	0.5	2.3	2.5	0.6	0.5	1.2	3.0	0.8	0.8	7.1	0.8	0.8
STD ERR OF P	0.8	3.2	0.5	1.1	0.5	1.3	0.5	2.9	0.4	2.5	3.1	0.5	0.5	1.6	3.2	0.4	0.3	7.8	0.5	0.0
AGE: Ad																				
DELTA-P	1.1	-0.1	-0.3	-0.2	0.7	0.4	-0.3	2.2	-0.4	0.2	-0.8	0.5	-0.3	1.9	0.6	-0.2	0.9	-0.4	-1.1#	-0.7
STD ERR OF DP		0.5	0.5	0.4	1.0	0.4	0.4	2.4	0.3	0.5	0.4	0.7	0.5	2.7	0.9	0.4	0.8	0.7	0.3	0.5
STD ERR OF P	0.3	0.5	0.4	0.3	1.2	0.7	0.3	2.7	0.2	0.6	0.3	0.9	0.4	2.9	0.9	0.4	0.8	0.7	0.0	0.4
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	37.3	-8.7#	-0.5	-0.1	8.4#	-0.5	0.5	-22.1#	4.7#	-17.0#	-11.6#	1.3	10.1#	-20.5#	-9.0	0.4	2.2	-3.5	6.8	12.1*
STD ERR OF DP		2.4	3.1	3.1	3.3	1.3	1.2	2.6	0.7	2.5	3.2	1.9	1.6	3.4	4.5	2.4	4.9	5.2	4.3	5.5
P-VALUE	37.3	28.7	36.8	37.3	45.7	36.8	37.8	15.3	42.0	20.3	25.8	38.7	47.5	16.9	28.4	37.7	39.6	33.8	44.2	49.5
STD ERR OF P	1.8	2.1	3.6	3.8	3.9	2.0	2.3	2.3	2.0	2.1	3.3	2.4	2.7	2.8	4.5	2.7	5.3	5.7	4.6	6.2
AGE: 17																				
DELTA-P	75.4	-7.9*	-1.4	2.9	4.3	0.2	-0.2	-21.7#	5.1#	-19.7#	-15.2#	-0.1	12.7#	-11.5#	-5.5	0.1	2.6	-11.2	3.7	14.4#
STD ERR OF DP		3.3	2.2	2.6	2.5	1.5	1.3	3.2	0.8	5.7	3.5	1.5	1.1	4.1	4.4	2.0	3.2	7.3	3.4	3.0
P-VALUE	75.4	67.5	74.1	78.4	79.7	75.6	75.3	53.7	80.5	55.7	60.3	75.3	88.1	63.9	70.0	75.5	78.0	64.2	79.1	89.8
STD ERR OF P	1.5	3.8	2.2	3.2	2.9	2.2	1.9	3.5	1.5	6.3	3.8	1.8	1.2	4.4	4.5	2.6	3.1	7.7	3.5	3.0
AGE: Ad																				
DELTA-P	60.4	-2.9	2.2	-3.5	4.1	11.6#	-10.8#	-24.9#	4.0#	-12.2#	-6.8*	2.1	18.0#	-13.4#	-1.3	-3.4	-1.0	5.9	2.7	14.7#
STD ERR OF DP		3.0	2.2	2.6	2.3	1.2	1.1	4.7	0.7	2.3	2.9	2.2	2.0	4.5	5.3	1.8	5.9	5.3	4.5	3.0
P-VALUE	60.4	57.5	62.6	56.9	64.5	71.9	49.6	35.5	64.8	48.2	53.6	62.5	78.4	47.0	59.1	56.9	59.4	66.3	63.0	75.0
STD ERR OF P	1.5	3.4	2.4	3.2	2.5	1.8	1.7	4.7	1.5	2.9	3.3	2.3	2.1	4.9	5.5	2.1	6.3	5.4	5.0	3.1
RESPONSE: 10 AGE: 13	TEXT: 4; -4																			
DELTA-P	37.3	-8.7#	-0.5	-0.1	8.4#	-0.5	0.5	-22.1#	4.7#	-17.0#	-11.5#	1.4	10.1#	-20.5#	-8.9	0.4	2.3	-3.5	6.9	12.1*
STD ERR OF DP		2.4	3.1	3.1	3.3	1.3	1.2	2.6	0.7	2.5	3.2	1.9	1.6	3.4	4.5	2.4	4.9	5.2	4.3	5.5
STD ERR OF P	1.8	2.1	3.6	3.8	3.9	2.0	2.3	2.3	2.0	2.1	3.3	2.4	2.7	2.8	4.5	2.7	5.3	5.7	4.6	6.2
AGE: 17																				
DELTA-P	74.0	-7.1*	-1.4	3.0	3.6	-0.2	0.2	-20.6#	4.9#	-18.8#	-14.3#	0.5	11.8#	-10.9#	-6.1	0.8	0.7	-10.6	4.1	12.6#
STD ERR OF DP		3.5	2.3	2.7	2.7	1.5	1.3	3.3	0.8	5.8	3.6	1.5	1.1	4.2	4.6	2.0	3.4	7.2	3.4	3.7
STD ERR OF P	1.6	4.0	2.2	3.4	3.2	2.2	2.0	3.6	1.7	6.4	4.0	1.8	1.4	4.4	4.7	2.7	3.5	7.6	3.6	3.9
AGE: Ad																				
DELTA-P	60.3	-3.0	2.1	-3.4	4.2	11.6#	-10.7#	-24.8#	4.0#	-12.3#	-6.7*	2.2	17.9#	-13.3#	-1.2	-3.4	-0.9	6.0	2.2	14.8#
STD ERR OF DP		3.0	2.2	2.6	2.3	1.2	1.2	4.7	0.7	2.3	2.9	2.2	1.9	4.5	5.3	1.8	5.9	5.3	4.6	3.0
STD ERR OF P	1.5	3.4	2.4	3.2	2.5	1.9	1.7	4.7	1.5	2.9	3.3	2.3	2.1	4.9	5.5	2.1	6.3	5.4	5.0	3.1
RESPONSE: 11 AGE: 13	TEXT: (16) under radical																			
DELTA-P	0.0	-0.0	-0.0	0.1	-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.3	0.1	0.4	-0.2	-0.3#	0.2	-0.1	0.0	-0.0	0.2	-0.3#	-0.2	0.1	0.1	0.2	-0.1	0.1	0.1	-0.3#	0.3
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.5	0.1	0.1	0.2	0.3	0.4	0.1	0.3	0.4	0.1	0.5
STD ERR OF P	0.1	0.3	0.3	0.1	0.0	0.2	0.1	0.3	0.1	0.5	0.0	0.1	0.2	0.3	0.5	0.2	0.4	0.4	0.0	0.5

EXERCISE: RF03

What is the SQUARE ROOT of 16?

RESPONSE: 11 AGE: Ad TEXT: (16) under radical

Response did not occur at this age.

RESPONSE: 12 AGE: 13 TEXT: + or - 4

Response did not occur at this age.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 12 AGE: 17																				
DELTA-P	1.1	-1.0#	-0.4	0.1	1.0	0.2	-0.2	-1.1#	0.2*	-1.1#	-0.7	-0.4	0.8*	-0.7	0.4	-0.6	1.8	-0.8	-0.1	1.4
STD ERR OF DP		0.3	0.4	0.5	0.7	0.2	0.2	0.3	0.1	0.3	0.5	0.4	0.4	0.4	0.9	0.3	1.3	0.5	0.7	1.4
STD ERR OF P	0.3	0.2	0.4	0.5	0.9	0.5	0.3	0.0	0.4	0.0	0.5	0.4	0.7	0.3	1.0	0.3	1.5	0.4	0.8	1.6
AGE: Ad																				
DELTA-P	0.1	0.1	0.1	-0.1	-0.1	0.0	-0.0	-0.1	0.0*	0.1	-0.1	-0.1	0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.4	-0.1
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1
STD ERR OF P	0.1	0.2	0.2	0.0	0.0	0.1	0.1	0.0	0.1	0.2	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.5	0.0
RESPONSE: 20 AGE: 13 TEXT: 256; 16 squared; 4 to the 4th power																				
DELTA-P	3.8	-1.2	-1.3	1.9*	0.3	-0.2	0.2	-2.7#	0.6#	-2.5*	-2.1*	0.6	0.8	-3.2#	-1.5	-0.2	0.0	0.5	0.8	2.5
STD ERR OF DP		0.9	0.9	0.9	0.8	0.5	0.5	0.9	0.2	1.2	0.9	0.8	0.5	0.6	1.9	0.7	1.1	1.4	1.8	1.4
STD ERR OF P	0.5	1.0	1.0	1.1	0.9	0.7	0.7	0.6	0.6	1.3	0.8	1.1	0.7	0.4	2.0	0.9	1.1	1.5	1.9	1.5
AGE: 17																				
DELTA-P	2.0	0.5	-0.1	-0.4	0.2	-0.2	0.1	-0.2	-0.1	-0.8	1.7	0.1	-1.2#	-0.2	1.4	0.1	-0.4	2.3	-0.7	-0.8
STD ERR OF DP		0.6	0.6	0.5	0.7	0.4	0.4	0.7	0.1	0.6	1.2	0.4	0.4	0.8	1.0	0.5	0.7	3.4	0.6	0.8
STD ERR OF P	0.4	0.7	0.6	0.5	0.9	0.4	0.6	0.7	0.4	0.6	1.4	0.5	0.2	0.8	1.1	0.6	0.7	3.5	0.6	0.8
AGE: Ad																				
DELTA-P	2.4	0.2	0.1	0.2	-0.5	-0.8	0.7	0.5	-0.0	-0.5	0.5	-0.3	0.8	-1.3	-1.7#	-0.6	2.3	1.4	-0.3	1.1
STD ERR OF DP		0.7	0.8	0.8	0.7	0.5	0.4	1.2	0.2	0.5	1.3	0.5	0.8	0.7	0.6	0.5	1.9	1.9	0.9	1.2
STD ERR OF P	0.5	0.8	0.9	1.0	0.7	0.4	0.8	1.2	0.5	0.6	1.5	0.6	1.0	0.6	0.5	0.6	2.2	2.0	0.8	1.3
RESPONSE: 21 AGE: 13 TEXT: 8;																				
DELTA-P	12.8	3.0*	-0.6	1.6	-3.8*	2.0*	-1.8*	8.2#	-1.6#	3.8	-0.3	-0.3	-1.5	6.0	0.4	-0.7	0.6	1.7	0.6	-4.8*
STD ERR OF DP		1.5	1.2	1.4	1.6	0.8	0.7	2.3	0.4	3.5	2.2	1.2	0.9	3.2	3.0	1.0	2.1	3.0	2.5	2.3
STD ERR OF P	0.8	1.6	1.3	1.7	1.9	1.1	1.1	2.6	0.8	3.6	2.2	1.4	1.1	3.3	3.1	1.2	2.2	3.2	2.7	2.3
AGE: 17																				
DELTA-P	4.8	3.9#	-0.7	-0.8	-1.7	-0.2	0.2	8.4#	-1.8#	4.0	1.9	-0.2	-2.1#	1.9	0.7	-0.3	1.3	-0.4	-1.1	-1.1
STD ERR OF DP		1.4	0.9	1.0	0.8	0.5	0.4	1.9	0.4	2.1	1.6	0.7	0.5	1.9	1.7	0.7	1.5	2.3	1.0	1.9
STD ERR OF P	0.6	1.6	0.9	1.3	0.9	0.7	0.8	2.2	0.5	2.3	1.7	1.0	0.6	2.1	1.8	0.8	1.6	2.5	1.0	2.1
AGE: Ad																				
DELTA-P	3.6	0.9	-0.3	-0.2	-0.1	-1.2*	1.1*	8.9#	-1.1#	1.1	2.7	-1.1	-1.2	1.8	-0.5	0.1	1.0	-1.1	0.1	-1.6
STD ERR OF DP		0.7	0.9	0.9	0.7	0.6	0.5	2.7	0.4	0.8	1.8	0.7	0.9	2.2	1.5	0.6	1.5	1.3	0.6	1.0
STD ERR OF P	0.5	0.6	1.1	1.1	0.7	0.5	0.9	2.9	0.5	0.9	2.1	0.7	0.8	2.4	1.5	0.6	1.6	1.4	0.7	1.0
RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	11.2	3.0	0.9	-0.3	-3.3#	0.0	0.0	5.6#	-1.2#	5.7	2.3	0.2	-1.6*	7.1#	7.0#	0.9	0.2	-4.4#	-5.1#	-3.3*
STD ERR OF DP		1.6	1.5	1.3	1.1	0.7	0.6	2.1	0.4	3.5	2.3	0.9	0.7	2.8	2.8	1.1	1.9	1.5	1.5	1.6
STD ERR OF P	0.8	1.8	1.9	1.6	1.0	1.1	1.0	2.2	0.8	3.8	2.3	1.2	1.1	3.0	2.9	1.3	2.0	1.5	1.7	1.7

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                            NATION |          REGION              |      SEX       |      RACE      |       PARENTAL EDUCATION          |              SIZE-AND-TYPE OF COMMUNITY
                                   |  SOUTH                 NORTH |                |                |           SOME    GRAD    POST    |    LOW EXTREME   SMALL  MEDIUM    MAIN   URBAN    HIGH
                            _______|___EAST____WEST_CENTRAL___EAST|____MALE__FEMALE|___BLACK___WHITE|__NO HS______HS______HS______HS_____|__METRO___RURAL__PLACES____CITY_BIG CTY__FRINGE__METRO

EXERCISE: RF03

What is the SQUARE ROOT of 16?


RESPONSE:  22    AGE: 17          TEXT:  Other Unacceptable

    DELTA-P                     5.7     1.0     1.8    -1.5    -0.8    -1.5*    1.3*    3.8*   -0.7*   -0.4     1.1     1.9*   -2.3*    2.7    -1.9     0.9    -0.8     0.3     0.7    -5.0*
    STD ERR OF DP                       1.2     0.9     0.8     0.9     0.6     0.5     1.6     0.3     1.3     1.5     0.9     0.6     1.6     1.1     0.7     1.4     1.5     1.7     0.6
    STD ERR OF P                0.5     1.4     1.0     1.0     1.1     0.7     0.9     1.8     0.6     1.4     1.5     1.1     0.6     1.7     1.1     1.0     1.4     1.5     1.9     0.4

                  AGE: Ad

    DELTA-P                     4.5    -0.1    -0.8     0.2     0.8    -0.1     0.1     6.9*   -1.1*    0.2    -2.0*    1.8    -2.0*    2.0    -1.3     0.1     0.4     1.2     0.5    -2.4
    STD ERR OF DP                       0.8     0.7     0.8     0.9     0.5     0.5     2.4     0.3     1.0     0.9     1.1     0.8     1.5     1.1     0.7     1.7     1.9     1.3     1.3
    STD ERR OF P                0.5     0.8     0.8     1.0     1.1     0.8     0.5     2.5     0.5     1.1     0.8     1.3     0.8     1.6     1.0     0.8     1.8     2.1     1.3     1.3

RESPONSE:  23    AGE: 13          TEXT:  4 squared; 4 x 4

    DELTA-P                     2.0     0.0     0.5    -0.7     0.2    -0.6     0.5    -0.1     0.1    -0.8    -0.6    -0.1     0.5    -1.5*   -1.3*    0.3     1.7    -0.2     0.7    -1.2
    STD ERR OF DP                       0.6     0.6     0.4     0.5     0.3     0.3     0.7     0.1     0.7     0.7     0.4     0.4     0.5     0.6     0.4     1.0     0.8     1.0     0.6
    STD ERR OF P                0.3     0.7     0.7     0.4     0.6     0.4     0.5     0.8     0.3     0.8     0.7     0.5     0.5     0.3     0.6     0.6     1.2     0.8     1.1     0.6

                  AGE: 17

    DELTA-P                     0.6    -0.2     0.3    -0.2     0.1     0.1    -0.1     0.6    -0.2     0.4     0.5    -0.3    -0.2     0.9    -0.4    -0.1     0.9    -0.1    -0.5*   -0.6*
    STD ERR OF DP                       0.3     0.3     0.3     0.3     0.2     0.2     0.5     0.1     0.6     0.5     0.2     0.2     0.6     0.3     0.2     0.7     0.5     0.2     0.2
    STD ERR OF P                0.2     0.2     0.4     0.3     0.4     0.3     0.2     0.6     0.2     0.6     0.6     0.2     0.2     0.7     0.2     0.3     0.7     0.5     0.1     0.0

                  AGE: Ad

    DELTA-P                     0.4     0.4     0.1    -0.4*   -0.0     0.2    -0.2    -0.4*    0.0    -0.4*    0.7     0.3    -0.4*   -0.4*   -0.4*    0.4     0.1     0.2    -0.4*   -0.4*
    STD ERR OF DP                       0.4     0.3     0.1     0.2     0.2     0.1     0.1     0.1     0.1     0.5     0.3     0.1     0.1     0.1     0.2     0.4     0.6     0.1     0.1
    STD ERR OF P                0.1     0.5     0.4     0.0     0.2     0.2     0.2     0.0     0.2     0.0     0.6     0.4     0.0     0.0     0.0     0.3     0.4     0.6     0.0     0.0

RESPONSE:  24    AGE: 13          TEXT:  8 squared; 64

    DELTA-P                     1.5     0.0    -0.1    -0.4     0.5     0.1    -0.1     0.5    -0.1    -0.4     1.1    -0.2    -0.0    -1.5*    1.7     0.1     0.0     0.7    -0.6    -0.5
    STD ERR OF DP                       0.7     0.5     0.4     0.6     0.3     0.2     0.8     0.1     0.8     1.0     0.4     0.4     0.3     1.3     0.4     0.7     0.9     0.7     0.7
    STD ERR OF P                0.3     0.9     0.5     0.5     0.7     0.4     0.4     0.9     0.3     0.9     1.1     0.4     0.5     0.0     1.5     0.5     0.8     0.9     0.8     0.7

                  AGE: 17

    DELTA-P                     0.3    -0.2     0.0    -0.3*    0.5    -0.1     0.1     0.1    -0.1    -0.3*    0.9    -0.2    -0.1     0.2    -0.3*   -0.1    -0.1    -0.3*    0.2     0.5
    STD ERR OF DP                       0.2     0.3     0.1     0.3     0.1     0.1     0.3     0.1     0.1     0.8     0.2     0.1     0.4     0.1     0.2     0.2     0.1     0.4     0.7
    STD ERR OF P                0.1     0.1     0.4     0.0     0.4     0.1     0.2     0.3     0.1     0.0     0.9     0.1     0.1     0.4     0.0     0.1     0.2     0.0     0.5     0.8

                  AGE: Ad

    DELTA-P                     0.6     0.3     0.3    -0.2    -0.3    -0.1     0.1     1.7    -0.2     0.0     0.2     0.0    -0.6*   -0.2    -0.6*    0.3     0.4    -0.6*   -0.4    -0.1
    STD ERR OF DP                       0.5     0.4     0.3     0.2     0.2     0.2     1.5     0.2     0.4     0.5     0.3     0.2     0.4     0.2     0.3     0.9     0.2     0.3     0.5
    STD ERR OF P                0.2     0.6     0.5     0.4     0.2     0.3     0.3     1.6     0.2     0.5     0.6     0.3     0.0     0.3     0.0     0.4     1.0     0.0     0.2     0.5

RESPONSE:  39    AGE: 13          TEXT:  I Don't Know.

    DELTA-P                    27.5     3.2     0.4    -0.9    -2.2    -1.7     1.6     4.7    -1.3*    8.4*   11.2*   -2.0    -6.0*    6.1     5.0     0.2    -3.7     3.2    -2.3    -4.4
    STD ERR OF DP                       2.3     2.4     2.0     2.2     1.1     1.0     2.6     0.6     4.0     4.9     1.4     1.3     3.1     4.2     1.8     4.0     4.4     4.4     3.2
    STD ERR OF P                1.3     2.5     2.9     2.3     2.6     1.5     1.8     2.6     1.6     4.4     5.1     1.7     1.9     2.8     4.2     2.0     4.4     4.8     4.7     3.4

                  AGE: 17

    DELTA-P                     8.6     0.4     1.0     0.5    -1.7     1.2    -1.0     2.5    -0.8    13.4     6.2*   -0.3    -5.3*    2.8     4.4     0.6    -1.3    -2.1    -0.7    -4.7*
    STD ERR OF DP                       1.4     1.6     2.0     1.6     1.2     1.0     1.9     0.4     7.2     2.4     1.1     0.9     2.1     3.8     1.5     1.7     1.6     1.8     1.7
    STD ERR OF P                1.0     1.4     1.7     2.6     1.7     1.8     1.1     1.8     1.2     7.9     2.4     1.1     0.7     2.1     4.0     2.2     1.5     1.8     1.8     1.5

                  AGE: Ad

    DELTA-P                    27.2     1.5    -1.4     4.1    -4.6*  -10.0*    9.3*    5.1    -1.2    11.5*    5.5    -3.3   -14.3*    9.6*    5.1     3.3    -3.9    -6.6    -1.1   -10.7*
    STD ERR OF DP                       2.6     2.1     2.5     2.1     1.1     1.0     4.2     0.6     2.3     2.8     1.8     1.9     4.4     3.9     1.7     2.8     4.2     3.9     2.7
    STD ERR OF P                1.4     2.9     2.4     3.1     2.2     1.4     1.8     4.3     1.4     3.1     3.1     2.0     1.7     5.0     4.0     2.0     2.7     4.5     4.5     2.9
```

RF04
OBJ II

Which one of the following is closest to the SQUARE ROOT of 10?

- ○ 2.5
- ○ 2.7
- ● 3.2
- ○ 3.8

- ○ I don't know.

Report #: RF04

NAEP #: F30014-34

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		11-17	07-14
National P-value:			
	RF04	50.27	38.93

Timing: (in seconds)

		17	Adult
	Stimulus:	11	14
	Response:	30	*
	I don't know:	5	*
	Pause:	6	*
RF04	Exercise total:	52	*

*Time not limited by paced tape.

```
                      NATION |          REGION             |     SEX       |    RACE       |    PARENTAL EDUCATION         |           SIZE-AND-TYPE OF COMMUNITY
                             | SOUTH                NORTH  |               |               |         SOME   GRAD   POST   |  LOW  EXTREME  SMALL MEDIUM  MAIN  URBAN   HIGH
                      -------|  EAST   WEST CENTRAL  EAST  |  MALE  FEMALE | BLACK  WHITE  | NO HS   HS     HS     HS     | METRO  RURAL PLACES  CITY BIG CTY FRINGE METRO

EXERCISE: RP04

Which one of the following is closest to the SQUARE ROOT of 10?

RESPONSE:  00    AGE: 17      TEXT:  No Response.

   DELTA-P             0.8    -0.8    1.8   -0.7   -0.5     0.1   -0.1    -0.1    0.1    -0.8   -0.8   -0.8    0.8    -0.8   -0.8   -0.8   -0.8    0.2   -0.8    6.4
   STD ERR OF DP               0.7    2.0    0.7    0.7     0.1    0.1  [illegible] 0.2   0.7    0.7    0.7    0.9     0.7    0.7    0.7    0.7    1.2    0.7    5.8
   STD ERR OF P        0.7     0.1    2.7    0.2    0.4     0.7    0.7     0.7    0.8     0.0    0.0    0.0    1.5     0.0    0.0    0.0    0.0    1.1    0.0    6.5

                 AGE: Ad

                              Response did not occur at this age.

RESPONSE:  01    AGE: 17      TEXT:  2.5

   DELTA-P            27.7     5.9*   1.7   -3.0   -2.9    -4.1*   4.3*   22.4*  -4.2*   10.7*  15.2*   0.5   -8.6*   15.5*   4.4   -2.7   -1.4   -1.9    1.9  -10.8*
   STD ERR OF DP               1.9    2.7    2.1    3.1     1.2    1.4     3.5    0.7     3.5    2.8    1.5    1.2     5.0    4.0    2.0    4.1    4.6    2.8    2.9
   STD ERR OF P        1.5     1.6    3.3    2.4    3.7     2.2    1.6     3.9    1.4     3.5    3.2    2.0    1.6     5.4    4.2    2.1    4.2    4.8    3.1    2.7

                 AGE: Ad

   DELTA-P            31.9    -1.7   -0.5    2.1   -0.4    -2.3    2.1    12.8*  -1.9*   -0.4    4.9    5.0*  -8.9*    6.2    4.0    1.0    0.7    0.1    2.3  -11.6*
   STD ERR OF DP               1.8    2.1    2.2    2.0     1.3    1.2     3.8    0.6     2.2    2.9    2.0    1.8     4.3    2.5    1.4    3.2    3.9    2.4    3.8
   STD ERR OF P        1.2     1.9    2.5    2.7    2.3     1.7    1.7     4.1    1.2     2.5    3.1    2.3    2.1     4.2    2.4    1.7    3.6    4.2    2.8    4.0

RESPONSE:  02    AGE: 17      TEXT:  2.7

   DELTA-P             3.4     2.7*  -0.5   -0.9   -0.6    -0.8*   0.8*    4.7*  -0.7*    1.9    2.5*  -1.0*  -1.5*    7.0*  -0.5   -0.8    1.1   -1.3   -1.2   -1.9*
   STD ERR OF DP               0.9    0.9    0.5    0.8     0.4    0.4     1.6    0.3     1.6    1.1    0.4    0.5     2.5    1.2    0.6    1.2    1.1    0.9    0.7
   STD ERR OF P        0.4     1.0    1.2    0.4    0.9     0.5    0.7     1.9    0.3     1.7    1.2    0.6    0.4     2.7    1.2    0.6    1.3    1.1    0.9    0.6

                 AGE: Ad

   DELTA-P             2.9     0.7    0.3   -0.5   -0.3     0.2   -0.2     4.0*  -0.5     0.4    2.0   -0.9   -0.8     0.9   -1.6   -0.4    0.5    2.0   -1.5    1.2
   STD ERR OF DP               1.0    0.8    0.6    0.6     0.4    0.4     1.9    0.3     0.7    1.4    0.7    0.6     1.2    1.0    0.4    1.2    2.1    0.8    1.0
   STD ERR OF P        0.4     1.2    1.0    0.6    0.5     0.6    0.5     2.1    0.4     0.9    1.6    0.7    0.6     1.3    1.1    0.5    1.3    2.3    0.7    1.1

RESPONSE:  03*   AGE: 17      TEXT:  3.2

   DELTA-P            50.3    -7.0*  -3.3    2.9    5.8     7.0*  -7.4*  -33.3*   6.4*  -24.8* -25.5*   0.3   15.0*  -28.7*  -5.1    5.3*   2.5   -2.1    4.2    7.5
   STD ERR OF DP               2.4    3.5    2.4    3.1     1.4    1.6     2.5    0.9     3.3    3.0    2.2    1.8     4.9    3.3    2.5    4.0    5.9    3.1    5.9
   P-VALUE            50.3    43.3   47.0   53.0   56.0    57.3   42.9    17.0   56.7    25.5   24.8   50.6   65.3    21.6   45.2   55.6   52.8   48.2   54.4   57.7
   STD ERR OF P        1.7     2.1    4.5    2.7    3.5     2.6    1.8     2.3    1.8     3.1    3.3    2.4    2.3     4.9    3.3    3.1    3.9    6.1    3.5    5.8

                 AGE: Ad

   DELTA-P            34.9    -2.2    2.9   -3.1    2.2     9.8*  -9.1*  -25.8*   3.9*  -12.0* -12.1*   0.3   22.4*  -15.0* -14.0*  -1.7    5.9   -3.0   -1.7   21.4*
   STD ERR OF DP               2.4    1.8    2.0    1.8     1.4    1.3     2.1    0.6     1.9    2.0    1.7    2.0     3.5    3.2    1.6    4.0    3.6    2.5    4.2
   P-VALUE            34.9    32.7   37.9   31.8   37.1    44.7   25.8     9.1   38.9    22.9   22.9   35.2   57.3    19.9   20.9   33.3   40.9   32.0   33.2   56.4
   STD ERR OF P        1.2     2.7    2.1    2.6    2.0     1.8    1.7     1.8    1.3     2.0    2.2    2.2    2.2     3.3    3.3    1.9    4.3    3.9    2.5    4.4

RESPONSE:  04    AGE: 17      TEXT:  3.8

   DELTA-P             7.8     0.5    1.3   -1.0   -0.5     0.4   -0.4     7.2*  -1.6*    6.1    6.6*  -0.1   -3.1*    6.6*   1.8   -1.3   -0.8    1.8   -2.9*   0.5
   STD ERR OF DP               1.4    1.1    1.0    1.1     0.6    0.5     2.0    0.4     3.1    1.5    1.0    0.7     2.4    1.9    0.9    1.5    2.7    1.2    1.9
   STD ERR OF P        0.6     1.6    1.2    1.2    1.2     0.8    1.0     2.2    0.7     3.2    1.6    1.3    0.7     2.5    2.0    1.1    1.5    2.9    1.3    2.1

                 AGE: Ad

   DELTA-P             5.1     1.5   -0.2   -0.8   -0.2     0.1   -0.1    12.2*  -2.0*    3.1*   1.4   -1.6   -2.7*    8.7*   2.5   -0.6   -0.3   -1.6   -3.3*  -1.5
   STD ERR OF DP               1.4    0.9    1.0    1.0     0.5    0.5     2.9    0.4     1.0    1.4    0.8    0.8     2.4    2.4    0.7    1.6    1.6    0.9    1.5
   STD ERR OF P        0.6     1.6    1.0    1.1    1.1     0.9    0.6     3.1    0.5     1.3    1.6    0.9    0.9     2.5    2.5    0.9    1.8    1.7    0.8    1.6

RESPONSE:  09    AGE: 17      TEXT:  I Don't Know.

   DELTA-P            10.0    -1.3   -1.0    2.8*  -1.4    -2.6*   2.7*   -0.9   -0.0     7.0*   2.1    1.1   -2.7*    0.4    0.2    0.2   -0.6    3.3   -1.6   -1.7
   STD ERR OF DP               1.0    1.1    0.9    1.0     0.8    0.8     2.3    0.4     2.8    1.6    1.2    0.8     1.9    2.6  [illegible] 1.6  2.2    1.5    3.0
   STD ERR OF P        0.6     1.0    1.4    1.1    1.2     0.9    1.1     2.4    0.7     2.9    1.6    1.3    0.9     1.8    2.7    1.0    1.7    2.3    1.7    3.1
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EXERCISE: RP09

Which one of the following is closest to the SQUARE ROOT of 10?

RESPONSE: 09 AGE: Ad TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	25.2	1.7	-2.5	2.3	-1.3	-7.8*	7.2*	-3.2	0.5	8.8*	3.9	-2.9	-10.1*	-0.7	9.2*	1.8	-6.9*	2.5	4.3	-9.5*
STD ERR OF DP		2.2	2.0	2.1	2.1	1.1	1.0	3.8	0.5	1.9	2.5	1.6	1.8	3.9	3.9	1.6	2.7	3.9	2.7	2.6
STD ERR OF P	1.3	2.4	2.2	2.6	2.4	1.4	1.7	4.2	1.3	2.6	2.8	1.9	1.8	4.1	4.2	2.2	2.7	4.0	3.0	2.7

RF05
OBJ II

$27^{\frac{1}{3}} =$

ANSWER ____________________

Report #: RF05

NAEP #: F30020-3

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 17
Package-Exercise: 03-15
National P-value:
RF05 19.19

Timing: (in seconds)
Stimulus: 3
Response: 21
RF05 Exercise total: 24

SCORING GUIDE
RF05
F30020-3

00 = No Response

10 = 3

11 = Cube root of 27; cube root of 27 (under radical)

20 = 81; 27 x 3

21 = 9; 27/3; 8.91; attempt to multiply 27 by .33

22 = 1/(27 cubed); 1/19683; 27 to the negative 3 power

23 = 27 cubed; 19683

24 = 243; 9 x 27

25 = 82; 82/3; 27 1/3; 27.3

26 = Other Unacceptable

39 = I Don't Know.

EXERCISE: RF05

27 to the 1/3rd power equals

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	4.0	-1.0	-1.6#	0.8	1.3	0.6	-0.6	1.6	-0.6*	-0.4	0.6	0.2	-1.0	3.3	-1.5	-1.2*	-1.2	2.9	2.6#	-2.4#
STD ERR OF DP		0.7	0.6	0.7	0.9	0.3	0.3	1.5	0.3	1.4	1.6	0.7	0.6	1.7	1.0	0.6	0.7	2.1	0.9	0.8
STD ERR OF P	0.4	0.7	0.5	0.9	1.2	0.6	0.5	1.5	0.5	1.4	1.8	0.7	0.7	1.8	1.0	0.6	0.6	2.3	1.0	0.7
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	19.2	-4.3	-0.3	-5.3*	9.8#	2.7#	-2.6#	-13.1#	2.7#	-12.4#	-11.0#	-3.2	8.6#	-13.6#	-6.4	0.7	2.8	-5.7	-0.2	15.3#
STD ERR OF DP		2.6	2.2	2.2	2.5	1.0	0.9	1.8	0.5	2.2	2.0	1.6	1.3	3.3	3.6	2.1	2.7	4.2	3.5	3.7
P-VALUE	19.2	14.9	18.9	13.9	29.0	21.9	16.6	6.1	21.8	6.8	8.2	16.0	27.8	5.6	12.8	19.9	22.0	13.5	19.0	34.5
STD ERR OF P	1.3	3.0	2.4	2.8	2.8	1.9	1.3	1.8	1.5	2.1	1.9	2.0	2.1	2.9	4.0	2.4	2.8	4.4	3.7	4.0
RESPONSE: 10 AGE: 17 TEXT: 3																				
DELTA-P	19.0	-4.6	-0.1	-5.1*	9.8#	2.8#	-2.7#	-13.0#	2.6#	-12.3#	-10.9#	-3.0	8.5#	-13.8#	-6.2	0.5	3.0	-5.5	-0.0	15.3#
STD ERR OF DP		2.6	2.2	2.2	2.5	1.0	0.9	1.8	0.5	2.2	2.0	1.6	1.3	3.0	3.6	2.1	2.8	4.2	3.5	3.7
STD ERR OF P	1.3	3.0	2.4	2.8	2.8	1.9	1.3	1.8	1.5	2.1	1.9	2.0	2.1	2.6	4.0	2.5	2.8	4.4	3.7	4.1
RESPONSE: 11 AGE: 17 TEXT: Cube root of 27; cube root of 27 (under radical)																				
DELTA-P	0.1	0.3	-0.1	-0.1	0.0	-0.1	0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.2	0.3	-0.1	0.2	-0.1	-0.1	-0.1	0.0
STD ERR OF DP		0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.2
STD ERR OF P	0.1	0.4	0.0	0.0	0.1	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.2	0.4	0.0	0.3	0.0	0.0	0.0	0.2
RESPONSE: 20 AGE: 17 TEXT: 81; 27 x 3																				
DELTA-P	2.3	0.7	1.0	0.1	-1.5#	-0.8*	0.7*	3.0#	-0.7#	1.3	0.7	-0.3	-0.4	2.5	0.5	-0.2	0.0	-0.4	-1.0	0.1
STD ERR OF DP		0.5	0.7	0.5	0.4	0.3	0.3	0.9	0.2	1.1	1.0	0.5	0.3	1.4	0.8	0.4	0.7	0.8	0.5	1.0
STD ERR OF P	0.3	0.5	0.8	0.7	0.4	0.3	0.6	1.0	0.3	1.2	1.1	0.5	0.4	1.5	0.9	0.5	0.8	0.8	0.6	1.0
RESPONSE: 21 AGE: 17 TEXT: 9; 27/3; 8.91; attempt to multiply 27 by .33																				
DELTA-P	29.2	1.9	-1.3	1.0	-1.2	2.0	-2.0	-5.7#	1.4#	-4.0	1.6	1.4	0.5	-4.7	1.1	3.3	2.3	-4.4	-1.2	-4.7
STD ERR OF DP		2.0	2.4	2.0	2.3	1.1	1.1	2.1	0.4	3.0	3.0	1.8	1.2	4.0	3.3	2.0	2.8	2.7	2.9	3.5
STD ERR OF P	1.2	2.2	2.7	2.4	2.8	1.9	1.4	2.0	1.5	2.9	3.1	2.3	1.8	4.2	3.3	2.5	3.1	2.6	3.3	3.9
RESPONSE: 22 AGE: 17 TEXT: 1/(27 cubed); 1/19683; 27 to the negative 3 power																				
DELTA-P	0.6	0.1	-0.1	-0.2	0.2	-0.0	0.0	-0.3	0.0	-0.6#	-0.6#	-0.0	0.4	-0.6#	-0.2	0.4	-0.0	0.2	-0.2	-0.6#
STD ERR OF DP		0.3	0.3	0.3	0.3	0.1	0.1	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.3	0.2
STD ERR OF P	0.2	0.3	0.3	0.4	0.4	0.2	0.2	0.3	0.2	0.0	0.0	0.3	0.4	0.0	0.3	0.4	0.4	0.5	0.4	0.0
RESPONSE: 23 AGE: 17 TEXT: 27 cubed; 19683																				
DELTA-P	0.6	-0.2	0.3	-0.3	0.3	0.2	-0.2	-0.2	0.1	-0.6#	0.6	0.5	-0.3	-0.2	0.3	0.1	-0.2	-0.6#	-0.1	0.3
STD ERR OF DP		0.3	0.4	0.2	0.4	0.2	0.2	0.3	0.1	0.2	0.7	0.4	0.2	0.4	0.5	0.3	0.4	0.2	0.3	0.8
STD ERR OF P	0.2	0.2	0.5	0.2	0.5	0.3	0.2	0.3	0.2	0.0	0.7	0.6	0.1	0.3	0.5	0.5	0.4	0.0	0.4	0.8
RESPONSE: 24 AGE: 17 TEXT: 243; 9 x 27																				
DELTA-P	2.2	0.0	0.9	-0.1	-0.7	0.2	-0.2	-0.6	0.1	-1.5#	-0.8	-0.5	0.9*	1.3	-0.1	-0.4	-0.6	-1.2	0.4	1.4
STD ERR OF DP		0.5	0.8	0.6	0.4	0.3	0.3	0.6	0.1	0.5	0.6	0.4	0.4	1.1	0.7	0.5	0.7	0.6	0.9	1.2
STD ERR OF P	0.3	0.6	1.0	0.7	0.4	0.5	0.4	0.6	0.4	0.4	0.5	0.4	0.6	1.1	0.6	0.6	0.8	0.6	1.0	1.3
RESPONSE: 25 AGE: 17 TEXT: 82; 82/3; 27 1/3; 27.3																				
DELTA-P	6.7	-1.0	-0.2	1.6	-0.8	-2.1#	2.1#	0.7	0.0	-3.0#	1.0	0.9	-0.5	0.8	-1.0	-0.5	0.3	2.7	0.7	-1.8
STD ERR OF DP		1.1	1.1	1.0	1.1	0.5	0.5	1.5	0.3	1.0	1.9	0.9	0.7	1.7	1.9	1.1	1.2	2.0	2.0	1.2
STD ERR OF P	0.6	1.1	1.2	1.3	1.4	0.8	0.9	1.6	0.7	1.1	1.8	1.2	0.9	1.7	2.0	1.4	1.1	2.0	2.2	1.1
RESPONSE: 26 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	12.6	2.1	-1.2	1.1	-2.0	-0.7	0.7	10.3#	-2.0#	5.6	3.7	-1.3	-1.7*	4.6	4.4*	-1.8	-3.3*	3.3	2.3	-4.9#
STD ERR OF DP		1.4	1.5	1.4	1.3	0.9	0.9	2.4	0.6	3.1	2.4	1.1	0.7	3.2	2.1	1.2	1.6	2.2	2.1	2.0
STD ERR OF P	0.8	1.5	1.7	1.8	1.5	1.2	1.3	2.8	0.8	3.2	2.7	1.3	1.0	3.4	2.1	1.6	1.5	2.2	2.3	2.0

EXERCISE: RP05

27 to the 1/3rd power equals

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	22.5	1.8	3.2	1.2	-5.4*	-2.0	2.0	4.4	-1.0	15.5*	4.1	2.2	-6.4*	6.6	2.9	-0.6	-0.4	3.1	-3.4	-2.8
STD ERR OF DP		1.4	2.3	1.4	1.4	1.2	1.2	3.1	0.6	3.9	2.8	1.8	1.1	5.2	3.1	1.5	2.7	2.6	1.9	2.6
STD ERR OF P	0.9	1.4	2.7	1.8	1.4	1.5	1.5	3.2	1.1	4.1	2.9	2.2	1.2	5.3	3.3	1.8	2.9	2.6	1.9	2.7

RF06
OBJ II

Which one of the following is another way of expressing 3.6×10^2?

○ 36

● 360

○ 3,600

○ 36,000

○ I don't know.

Report #: RF06

NAEP #: P40008-234

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		09-30	02-24	05-29
National P-value:				
	RF06	37.49	62.22	48.98

Timing: (in seconds)		13	17	Adult
	Stimulus:	9	11	16
	Response:	20	20	*
	I don't know:	5	5	*
	Pause:	6	6	*
RF06	Exercise total:	40	42	*

*Time not limited by paced tape.

EXERCISE: RF06

Which one of the following is another way of expressing 3.6 x 10 squa ed?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.8	2.1	3.4	-2.0	-3.4*	-0.5	0.5	1.7	-0.4	4.9	-0.9	0.4	-1.9#	13.4	-1.9	-1.5	-3.3*	4.7	2.0	-3.7*
STD ERR OF DP		3.0	3.7	1.8	1.6	0.6	0.6	2.8	0.4	2.9	0.9	0.8	0.7	14.2	2.2	1.9	1.6	5.6	4.7	1.6
STD ERR OF P	1.6	3.6	4.8	1.2	0.2	1.3	2.0	3.1	1.5	4.3	1.6	1.8	0.9	15.0	1.8	2.0	0.5	6.0	5.3	0.2
AGE: 17																				
DELTA-P	1.5	2.7	-0.9	-1.1	-0.2	0.2	-0.2	2.3	-0.4	-0.2	1.9	-0.5	-0.7*	0.7	-1.5*	-0.6	-0.4	11.9	-1.5*	-1.5*
STD ERR OF DP		2.4	0.7	0.7	0.8	0.4	0.4	1.5	0.3	0.9	2.1	0.4	0.4	1.2	0.7	0.8	1.0	7.8	0.7	0.7
STD ERR OF P	0.7	3.0	0.4	0.3	0.6	1.0	0.5	2.0	0.6	1.0	2.6	0.4	0.4	1.1	0.0	0.8	0.8	8.3	0.0	0.0
AGE: Ad																				
DELTA-P	0.2	0.6	-0.2	-0.2	0.0	-0.2	0.2	1.5	-0.2	0.7	-0.2	-0.2	-0.2	0.2	-0.2	0.2	-0.2	-0.2	0.0	-0.2
STD ERR OF DP		0.7	0.2	0.2	0.2	0.2	0.2	1.5	0.2	0.5	0.2	0.2	0.2	0.4	0.2	0.3	0.2	0.2	0.3	0.2
STD ERR OF P	0.2	0.8	0.0	0.0	0.2	0.0	0.4	1.6	0.0	0.7	0.0	0.0	0.0	0.4	0.0	0.5	0.0	0.0	0.2	0.0
RESPONSE: 01 AGE: 13	TEXT: 36																			
DELTA-P	6.6	0.7	-0.7	-0.4	0.6	1.5#	-1.6#	3.2	-0.6*	6.5	0.1	-1.4	-0.4	-0.6	0.3	-0.7	2.7#	-0.3	-0.2	-0.3
STD ERR OF DP		1.2	0.9	1.2	1.1	0.5	0.5	1.7	0.3	3.6	1.6	0.8	0.8	2.0	2.6	0.8	1.0	2.2	1.5	1.0
STD ERR OF P	0.6	1.4	0.9	1.5	1.3	0.8	0.8	1.8	0.7	3.9	1.5	0.8	1.0	2.1	2.8	0.9	0.8	2.5	1.8	0.9
AGE: 17																				
DELTA-P	3.4	0.4	-0.4	0.3	-0.3	0.2	-0.2	0.3	0.0	-1.4	-0.6	0.2	-0.3	1.5	0.6	-0.1	1.8	-1.9	0.5	-3.1#
STD ERR OF DP		0.7	0.6	0.9	0.5	0.4	0.4	1.0	0.2	0.9	1.0	0.6	0.5	1.0	1.7	0.5	1.3	1.0	1.4	0.4
STD ERR OF P	0.4	0.7	0.6	1.1	0.5	0.6	0.5	1.0	0.5	0.9	1.2	0.8	0.5	1.0	1.8	0.5	1.3	0.9	1.6	0.2
AGE: Ad																				
DELTA-P	3.8	2.4	-1.5#	1.0	-1.6#	0.7	-0.6	0.8	0.1	0.7	0.2	0.4	-1.1	-0.2	6.7#	0.5	-0.9	-0.9	-2.2#	-2.4#
STD ERR OF DP		1.3	0.6	0.8	0.5	0.5	0.5	1.6	0.2	1.1	1.3	0.6	0.8	1.5	2.5	0.5	1.0	1.7	0.7	0.9
STD ERR OF P	0.5	1.6	0.5	1.0	0.4	0.9	0.5	1.7	0.5	1.4	1.5	0.6	0.8	1.5	2.8	0.6	0.9	1.7	0.7	0.8
RESPONSE: 02* AGE: 13	TEXT: 360																			
DELTA-P	37.5	-1.5	-2.6	-0.9	5.3#	3.1#	-3.4#	-8.7#	1.6#	-13.1#	-7.6#	-3.3	8.3#	-9.2	0.8	-1.6	7.9#	-2.9	1.0	1.4
STD ERR OF DP		2.7	2.1	2.1	2.0	1.0	1.1	2.7	0.5	3.2	2.7	1.8	1.5	7.4	2.7	1.8	2.4	4.1	3.6	2.8
P-VALUE	37.5	36.0	34.9	36.6	42.7	40.6	34.1	28.8	39.1	24.4	29.9	34.2	45.8	28.3	38.3	35.9	45.4	34.6	38.4	38.9
STD ERR OF P	1.3	3.3	2.4	2.4	2.1	1.8	1.5	2.9	1.4	3.8	2.6	2.1	2.0	7.7	3.1	2.4	2.3	4.3	3.7	2.8
AGE: 17																				
DELTA-P	62.2	-7.9#	-2.1	4.4	3.3	1.4	-1.2	-27.3#	6.1#	-13.8*	-14.1#	-1.8	12.2#	-24.4#	5.5	1.7	0.8	-12.3*	2.8	19.4#
STD ERR OF DP		3.0	2.7	2.5	2.8	1.4	1.2	2.9	1.0	5.6	2.9	1.7	1.4	3.0	3.9	2.0	3.8	5.3	4.3	3.7
P-VALUE	62.2	54.4	60.2	66.6	65.5	63.7	61.0	35.0	68.3	48.5	48.2	60.4	74.4	37.9	67.7	63.9	63.0	49.9	65.0	81.6
STD ERR OF P	1.6	3.3	3.0	3.0	3.4	2.2	1.9	3.2	1.6	6.1	3.4	2.0	1.9	3.2	3.9	2.3	3.6	5.6	4.8	3.9
AGE: Ad																				
DELTA-P	49.0	-2.3	1.0	-3.1	4.4	5.8#	-5.4#	-23.1#	3.4#	-13.7#	-8.4#	2.0	18.3#	-13.2#	-18.6#	-3.1	9.0*	1.3	1.8	19.9#
STD ERR OF DP		2.8	2.5	2.1	2.7	1.4	1.3	3.1	0.8	1.9	2.9	1.9	2.1	4.3	3.1	1.9	3.7	3.7	3.6	2.9
P-VALUE	49.0	46.7	50.0	45.9	53.4	54.8	43.6	25.9	52.4	35.3	40.6	51.0	67.3	35.8	30.4	45.9	58.0	50.3	50.8	68.9
STD ERR OF P	1.5	3.2	2.9	2.3	3.2	1.8	2.0	3.3	1.5	2.4	3.2	2.2	2.4	4.7	3.1	2.3	3.7	4.0	3.9	2.8
RESPONSE: 03 AGE: 13	TEXT: 3,600																			
DELTA-P	37.1	-4.5	-2.1	5.1*	1.2	-3.4#	3.7#	-0.0	0.1	-2.0	2.6	3.1	-1.6	-5.0	1.6	4.1*	-10.8#	-3.3	-1.3	5.2
STD ERR OF DP		2.5	2.8	2.3	2.1	1.0	1.1	2.6	0.5	3.8	3.4	1.7	1.3	5.9	3.6	1.8	2.3	3.6	2.9	2.9
STD ERR OF P	1.4	2.9	3.5	2.6	2.2	1.8	1.8	2.6	1.7	4.1	3.8	2.3	1.8	6.3	4.1	2.1	2.0	4.0	3.6	3.0
AGE: 17																				
DELTA-P	21.4	3.8	2.5	-4.5#	-0.4	-4.1#	3.6#	18.5#	-3.9#	0.8	9.0#	2.9*	-6.5#	11.4#	-0.6	-0.9	0.9	2.6	-2.0	-8.6#
STD ERR OF DP		1.9	2.0	1.8	2.0	0.9	0.9	2.4	0.7	3.8	2.8	1.4	1.2	2.5	5.0	1.5	2.7	3.7	3.2	3.1
STD ERR OF P	1.1	2.1	2.2	2.1	2.5	1.2	1.6	2.7	1.1	4.0	3.3	1.8	1.4	2.5	5.2	1.8	2.6	3.7	3.6	3.4

EXERCISE: RF06

Which one of the following is another way of expressing 3.6 x 10 squared?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 01 AGE: Ad	TEXT: 3,600																			
DELTA-P	15.5	-1.1	2.2	-0.5	-0.8	1.6	-1.4	7.4*	-1.2*	0.8	2.7	-0.4	-1.7	4.5*	0.2	-0.2	0.2	0.5	2.5	-5.1
STD ERR OF DP		1.5	1.9	1.1	1.4	1.0	0.9	2.8	0.6	1.5	2.4	1.5	1.8	2.1	2.5	1.1	1.8	2.9	2.2	2.7
STD ERR OF P	0.9	1.6	2.4	1.0	1.5	1.5	1.1	3.0	0.9	1.7	2.8	1.7	1.9	2.3	2.6	1.3	2.1	3.0	2.4	2.9
RESPONSE: 04 AGE: 13	TEXT: 36,000																			
DELTA-P	6.2	3.0*	-0.8	-0.8	-1.2	-1.0	1.1	4.6*	-0.6	-0.8	1.5	1.7	-1.6*	0.8	-2.4*	0.7	1.7	-0.7	-1.1	-0.0
STD ERR OF DP		1.1	0.8	0.7	0.7	0.5	0.6	2.1	0.3	1.4	2.2	0.8	0.6	1.8	1.1	0.7	1.6	1.4	1.1	1.2
STD ERR OF P	0.5	1.4	0.9	0.8	0.8	0.7	0.8	2.3	0.5	1.5	2.3	1.1	0.7	1.8	1.0	0.9	1.8	1.4	1.3	1.2
AGE: 17																				
DELTA-P	4.7	0.8	1.0	-1.4	0.0	0.1	-0.1	3.8*	-0.9*	1.2	3.1	0.1	-2.1*	5.4*	-1.2	-0.5	0.2	0.4	-1.6	-1.3
STD ERR OF DP		1.2	0.9	0.8	0.9	0.6	0.5	1.9	0.3	1.8	1.6	0.7	0.7	1.8	1.9	0.7	1.2	1.8	1.2	1.2
STD ERR OF P	0.5	1.3	1.0	0.8	1.1	0.8	0.7	2.0	0.6	2.0	1.9	0.9	0.6	1.9	2.0	1.0	1.2	1.8	1.2	1.2
AGE: Ad																				
DELTA-P	2.5	-1.1	0.5	1.1	-0.8	-0.2	0.2	1.2	-0.2	0.4	1.1	-1.0	0.2	-0.1	1.3	-0.8	2.2	-0.9	0.9	-0.6
STD ERR OF DP		0.7	0.7	1.0	0.7	0.4	0.4	1.3	0.2	0.7	1.1	0.5	0.6	1.0	2.0	0.5	1.8	1.0	1.2	0.9
STD ERR OF P	0.5	0.6	0.9	1.3	0.7	0.6	0.6	1.4	0.5	0.9	1.3	0.6	0.7	1.0	2.1	0.7	2.0	1.0	1.2	0.9
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	8.7	0.3	2.8*	-0.9	-2.4*	0.3	-0.3	-0.8	-0.1	4.4	4.3	-0.5	-2.7*	0.6	1.6	-1.0	1.8	2.6	-0.3	-2.7
STD ERR OF DP		1.5	1.3	1.5	1.1	0.6	0.6	1.6	0.3	2.6	2.4	0.8	0.8	3.1	3.7	0.9	2.5	2.5	1.6	1.7
STD ERR OF P	0.8	1.8	1.5	1.8	1.0	1.1	0.9	1.6	0.9	2.9	2.4	1.2	0.8	3.1	4.1	0.9	2.7	2.6	1.7	1.7
AGE: 17																				
DELTA-P	6.8	0.2	-0.1	2.2	-2.4*	2.2*	-1.9	2.3	-0.9*	13.4	0.7	-0.9	-2.6*	5.3*	-2.7	0.5	-3.2*	-0.8	1.8	-4.8*
STD ERR OF DP		1.6	1.3	2.1	1.2	1.1	1.0	1.8	0.4	6.9	1.5	1.0	1.0	2.2	2.3	1.5	1.6	2.5	2.0	1.2
STD ERR OF P	1.0	1.6	1.2	2.8	1.0	2.0	0.7	1.8	1.1	7.7	1.6	0.9	0.9	2.3	2.3	2.2	1.2	2.5	2.1	0.9
AGE: Ad																				
DELTA-P	29.0	1.4	-1.9	1.8	-1.3	-7.6*	7.0*	12.3*	-1.9*	11.2*	4.9	-0.3	-15.5*	8.7*	10.7*	3.4	-10.3*	0.2	-3.0	-11.6*
STD ERR OF DP		2.3	2.7	2.6	1.9	1.2	1.0	3.1	0.6	1.9	2.6	1.7	1.9	4.0	3.4	1.9	3.0	3.7	2.9	2.8
STD ERR OF P	1.4	2.3	3.4	3.2	1.8	1.6	1.9	3.1	1.5	2.6	3.1	2.0	1.9	4.2	3.4	2.7	3.2	3.8	2.9	3.0

RG01
OBJ III

If y dollars are shared equally among four boys, how many dollars does each boy receive?

ANSWER ____________

Report #: RG01

NAEP #: G20001-234

Content Area: G. ALGEBRAIC EXPRESSIONS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		06-09	10-01	03-04
National P-value:				
	RG01	12.32	42.79	33.43
Timing: (in seconds)				
	Stimulus:	6	6	6
	Response:	25	25	*
RG01	Exercise total:	31	31	*

*Time not limited by paced tape.

SCORING GUIDE
RG01
G20001-234

00 = No Response

10 = y/4; y divided by 4; 1/4 y; y quarters

11 = 1/4 of the money

20 = 4 divided by y; 4/y

21 = 1/4; 25

22 = $4; 4

23 = Other Unacceptable

24 = $1; 1

39 = I Don't Know.

EXERCISE: RG01

If y dollars are shared equally among four boys, how many dollars does each boy receive?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	2.6	0.7	0.7	0.1	-1.5#	0.7	-0.7	3.5*	-0.6*	-0.5	-0.6	0.8	-1.1*	1.5	-0.1	-1.2*	2.5	-0.8	1.4	-1.0
STD ERR OF DP		0.9	0.9	0.7	0.6	0.4	0.4	1.5	0.2	1.2	1.0	0.8	0.5	1.4	1.6	0.6	1.5	0.9	1.7	0.8
STD ERR OF P	0.5	1.0	1.1	0.9	0.5	0.7	0.5	1.6	0.5	1.2	1.0	1.1	0.5	1.4	1.7	0.5	1.6	0.9	1.9	0.8
AGE: 17																				
DELTA-P	2.8	0.3	0.6	-1.6#	1.0	0.8	-0.8	2.9*	-0.8#	2.7*	0.9	-0.7	-1.2#	5.5*	-0.7	-0.5	0.9	-0.8	-0.5	-2.3#
STD ERR OF DP		0.7	0.7	0.5	0.9	0.4	0.4	1.4	0.3	1.3	1.2	0.5	0.4	2.5	0.8	0.6	0.9	1.5	1.0	0.5
STD ERR OF P	0.4	0.8	0.8	0.5	1.1	0.7	0.5	1.5	0.4	1.5	1.4	0.6	0.4	2.7	0.7	0.7	1.0	1.5	1.0	0.4
AGE: Ad																				
DELTA-P	0.5	0.0	0.2	-0.2	0.0	0.3*	-0.3	-0.5#	0.1#	0.2	0.0	-0.1	-0.1	-0.5#	2.1	-0.1	0.4	0.1	-0.5#	-0.5#
STD ERR OF DP		0.4	0.4	0.3	0.3	0.2	0.1	0.2	0.0	0.4	0.4	0.2	0.2	0.2	1.3	0.2	0.5	0.6	0.2	0.2
STD ERR OF P	0.2	0.4	0.4	0.3	0.4	0.3	0.1	0.0	0.2	0.5	0.4	0.2	0.3	0.0	1.4	0.3	0.6	0.7	0.0	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	12.3	-3.6	-2.5	-0.3	6.3#	0.9	-0.9	-10.6#	1.8#	-10.0#	-6.1#	-3.6#	8.6#	-7.3#	-2.8	1.3	-3.1	-1.7	-0.3	7.6#
STD ERR OF DP		2.0	1.6	2.2	2.2	1.1	1.1	1.6	0.4	2.3	1.7	1.3	1.3	2.5	3.2	1.6	2.7	3.0	2.4	2.9
P-VALUE	12.3	8.7	9.8	12.1	18.6	13.2	11.5	1.7	14.1	2.3	6.2	8.7	20.9	5.0	9.5	13.6	9.3	10.6	11.9	20.0
STD ERR OF P	1.2	2.1	1.4	2.8	2.6	1.8	1.4	1.3	1.4	2.3	1.8	1.5	2.1	2.4	3.4	2.0	2.9	3.1	2.6	3.3
AGE: 17																				
DELTA-P	42.8	-4.3	-3.8	4.1	2.9	5.1#	-4.7#	-23.8#	5.3#	-17.3#	-15.9#	-2.4	12.9#	-19.9#	-3.8	-0.8	6.2	-2.0	-3.4	21.0#
STD ERR OF DP		2.6	2.6	2.8	2.4	1.2	1.2	3.2	0.8	5.3	2.8	2.1	1.6	3.7	7.0	2.0	3.8	5.3	4.3	2.9
P-VALUE	42.8	38.5	39.0	46.9	45.6	47.9	38.1	19.0	48.1	25.5	26.9	40.4	55.7	23.0	39.0	42.0	49.0	40.8	39.4	63.7
STD ERR OF P	1.5	2.8	3.0	3.6	2.6	2.1	1.7	2.8	1.9	5.0	3.2	2.6	2.0	3.6	7.1	2.4	4.2	5.0	4.7	2.7
AGE: Ad																				
DELTA-P	33.4	-7.5#	[illegible]	-2.2	2.3	9.1#	-8.4#	-23.3#	3.9#	-16.4#	-11.3#	1.9	25.0#	-18.7#	-5.8	-0.6	3.8	2.5	2.4	11.4#
STD ERR OF DP		[illegible]	2.6	2.9	2.9	1.3	1.2	3.2	0.7	2.1	2.7	1.9	2.1	3.2	4.8	2.3	4.7	4.9	4.1	3.9
P-VALUE	[illegible]	26.0	[illegible]	31.2	35.7	42.5	25.0	10.1	37.4	17.0	22.1	35.3	58.4	14.7	27.6	32.9	37.2	36.0	35.9	44.8
STD ERR OF P	[illegible]	[illegible]	[illegible]	3.5	3.3	2.2	1.9	3.0	1.8	2.1	3.0	2.4	2.8	2.9	5.1	2.9	4.5	5.1	4.3	4.7
RESPONSE: 10 AGE: 13	TEXT: [illegible] y divided by 4; y quarters																			
DELTA-P	[illegible]	[illegible]	[illegible]	[illegible]	6.5#	1.0	-0.9	-9.8#	1.7#	-3.6#	-6.4#	-2.9*	7.4#	-6.1*	-1.7	0.5	-1.9	-2.8	-0.2	7.3#
STD ERR OF DP		[illegible]	[illegible]	1.9	2.1	1.1	1.0	1.2	0.3	1.4	1.4	1.2	1.1	2.6	3.2	1.5	2.6	2.3	2.3	2.9
STD ERR OF P	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.6	1.3	0.5	1.3	1.2	1.5	1.5	1.9	2.4	3.5	1.8	2.9	2.3	2.5	3.2
AGE: 17																				
DELTA-P	41.7	-4.7	-3.8	4.8	2.4	5.1#	-4.6#	-23.1#	5.2#	-16.3#	-15.7#	-3.1	13.0#	-19.0#	-2.9	-1.1	6.1	-1.2	-3.7	20.6#
STD ERR OF DP		2.7	2.5	2.9	2.4	1.2	1.2	3.1	0.8	5.2	2.7	2.1	1.6	3.8	7.0	2.1	3.7	5.2	4.2	2.7
STD ERR OF P	1.5	2.9	2.8	3.7	2.5	2.2	1.7	2.8	1.9	4.9	3.2	2.6	2.1	[illegible]	7.1	2.4	4.2	5.0	4.6	2.5
AGE: Ad																				
DELTA-P	32.8	-7.0*	5.6*	-2.0	2.2	9.4#	-8.7#	-22.7#	3.9#	-16.5#	-11.4#	1.7	25.2#	-18.4#	-6.5	-0.5	4.1	3.1	1.0	12.0#
STD ERR OF DP		2.9	2.7	2.9	3.0	1.3	1.2	3.2	0.7	2.1	2.7	1.8	2.1	3.3	4.5	2.3	4.7	4.8	3.5	3.9
STD ERR OF P	1.7	3.0	3.2	3.5	3.4	2.2	1.9	3.0	1.8	2.1	3.0	2.4	2.9	3.0	4.7	3.0	4.4	5.1	3.8	4.7
RESPONSE: 11 AGE: 13	TEXT: 1/4 of the money																			
DELTA-P	1.6	0.7	-0.2	-0.2	-0.2	-0.0	0.0	-0.8	0.1	-0.5	0.3	-0.7	1.1#	-1.2*	-1.1	0.8	-1.2*	1.1	-0.2	0.3
STD ERR OF DP		0.8	0.5	0.5	0.5	0.4	0.3	0.8	0.1	1.2	0.9	0.4	0.4	0.5	0.6	0.6	0.5	1.4	0.7	0.7
STD ERR OF P	0.3	1.0	0.6	0.6	0.5	0.5	0.5	0.9	0.4	1.2	1.0	0.4	0.7	0.4	0.5	0.7	0.5	1.5	0.7	0.8
AGE: 17																				
DELTA-P	1.1	0.4	0.1	-0.7*	0.4	0.1	-0.1	-0.7	0.1	-1.0#	-0.3	0.7	-0.1	-0.8	-0.9*	0.3	0.0	-0.8*	0.4	0.3
STD ERR OF DP		0.8	0.4	0.3	0.6	0.3	0.3	0.5	0.1	0.3	0.4	0.5	0.3	0.4	0.4	0.4	0.5	0.4	0.9	0.9
STD ERR OF P	0.3	0.9	0.4	0.2	0.7	0.5	0.3	0.4	0.4	0.1	0.3	0.7	0.4	0.3	0.3	0.5	0.6	0.3	1.1	0.9

EXERCISE: BG01

If y dollars are shared equally among four boys, how many dollars does each boy receive?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 11 AGE: Ad TEXT: 1/4 of the money																				
DELTA-P	0.6	-0.4*	0.4	-0.2	0.1	-0.3	0.2	-0.6#	0.0	0.1	[illegible]	0.2	-0.3	-0.3	0.6	-0.0	-0.4	-0.6#	1.5	-0.6#
STD ERR OF DP		0.2	0.4	0.2	0.3	0.2	0.2	0.2	0.1	0.3	0.4	0.3	0.3	[illegible]	0.8	0.2	0.3	0.2	1.0	0.2
STD ERR OF P	0.2	0.2	0.5	0.2	0.4	0.3	0.3	0.0	0.2	0.3	0.5	0.4	0.3	0.3	0.9	0.2	0.2	0.0	1.2	0.0
RESPONSE: 20 AGE: 13 TEXT: 4/y; 4 divided by y																				
DELTA-P	0.3	-0.3	0.2	0.3	[illegible]	-0.1	0.0	-0.1	-0.1	-0.3	0.1	-0.3	0.3	0.8	1.2	-0.2	-0.3	0.1	-0.3	-0.2
STD ERR OF DP		0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.1	0.2	0.4	0.2	0.3	1.0	1.4	0.2	0.2	0.4	0.2	0.2
STD ERR OF P	0.2	0.0	0.3	0.5	0.0	0.2	0.3	0.2	0.2	0.0	0.4	0.1	0.4	1.1	1.5	0.1	0.0	0.4	0.0	0.1
AGE: 17																				
DELTA-P	1.7	-0.7	-0.5	1.2	-0.3	-0.5	0.5	-0.3	[illegible]	-0.9	0.9	-0.7	0.5	-0.4	-0.7	-0.2	-0.8	-0.9	1.3	1.0
STD ERR OF DP		0.5	0.5	0.7	0.5	0.3	0.3	0.8	0.1	0.7	0.8	0.5	0.3	0.9	1.0	0.5	0.5	0.9	1.1	1.1
STD ERR OF P	0.4	0.4	0.6	1.0	0.5	0.5	0.4	0.9	0.4	0.9	0.9	0.4	0.6	0.9	1.0	0.7	0.3	0.9	1.3	1.1
AGE: Ad																				
DELTA-P	0.7	-0.4	0.4	-0.3	0.3	-0.1	0.1	-0.7#	0.1	-0.6#	[illegible]	0.2	0.6	-0.4	-0.7#	-0.1	-0.4	1.1	-0.7#	1.1
STD ERR OF DP		0.3	0.4	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.9	0.2	0.7
STD ERR OF P	0.2	0.2	0.4	0.3	0.5	0.3	0.3	0.0	0.2	0.1	0.2	0.4	0.5	0.3	0.0	0.3	0.2	1.0	0.0	0.9
RESPONSE: 21 AGE: 13 TEXT: 1/4; 25																				
DELTA-P	2.3	0.1	0.7	-0.6	-0.1	0.6	-0.6	1.1	-0.3	-0.2	-0.7	0.1	-0.5	1.5	0.4	0.3	0.6	-1.3#	-0.3	-1.4#
STD ERR OF DP		0.8	0.5	0.6	0.6	0.4	0.3	1.4	0.2	1.1	0.7	0.5	0.4	1.2	1.3	0.5	1.2	0.5	0.9	0.5
STD ERR OF P	0.4	0.9	0.6	0.7	0.6	0.6	0.4	1.5	0.3	1.2	0.7	0.6	0.5	1.3	1.3	0.7	1.4	0.4	0.9	0.5
AGE: 17																				
DELTA-P	2.1	0.6	0.3	0.3	-1.1	-0.2	0.2	0.9	-0.4	1.9	0.1	-0.9	0.0	0.3	4.4	[illegible]	-0.5	-0.6	-0.2	-0.5
STD ERR OF DP		0.8	0.7	1.0	0.5	0.4	0.4	0.9	0.3	1.6	0.6	0.6	0.4	0.8	[illegible]	[illegible]	1.2	1.0	1.0	0.8
STD ERR OF P	0.5	0.9	0.8	1.3	0.4	0.5	0.7	0.9	0.5	1.9	0.9	0.6	0.5	0.7	[illegible]	0.4	1.2	0.9	1.1	0.8
AGE: Ad																				
DELTA-P	2.6	-0.0	-1.0	1.1	-0.2	0.4	-0.4	2.1	-0.2	-0.1	0.7	0.8	-1.0	-1.2	-0.3	-0.2	0.3	2.7	0.3	-0.6
STD ERR OF DP		0.8	0.6	0.8	0.6	0.4	0.4	1.9	0.3	0.6	1.2	0.7	0.6	0.8	1.2	0.5	1.2	2.3	0.9	1.2
STD ERR OF P	0.4	0.8	0.6	1.0	0.7	0.6	0.5	2.1	0.4	0.7	1.4	0.9	0.5	0.7	1.3	0.7	1.2	2.4	0.9	1.3
RESPONSE: 22 AGE: 13 TEXT: $4; 4																				
DELTA-P	8.3	-0.3	1.0	-1.1	0.5	-1.0	0.9	6.0#	-1.1#	5.6	0.1	1.9	-2.3#	1.5	1.9	-2.2#	1.1	-0.4	4.4	-1.7
STD ERR OF DP		1.1	1.2	1.3	1.5	0.8	0.7	2.4	0.4	4.3	1.8	1.1	0.8	2.8	2.2	0.8	1.7	2.6	2.8	1.7
STD ERR OF P	0.7	1.1	1.2	1.6	1.8	0.8	1.3	2.6	0.7	4.5	1.9	1.3	1.0	3.0	2.4	0.8	1.8	2.6	3.1	1.7
AGE: 17																				
DELTA-P	7.9	0.9	-0.0	0.5	-1.2	-0.7	0.7	2.5	-0.5	3.2	3.1*	0.2	-1.8*	5.2*	-2.6	2.5#	-0.8	-3.0*	-1.6	-4.8#
STD ERR OF DP		0.9	1.0	0.9	0.9	0.7	0.6	1.9	0.4	2.2	1.5	1.0	0.9	2.6	2.2	0.8	2.0	1.5	1.5	1.3
STD ERR OF P	0.6	1.0	1.2	1.1	1.0	0.9	0.9	2.1	0.6	2.3	1.6	1.1	1.1	2.7	2.3	0.9	2.3	1.4	1.5	1.2
AGE: Ad																				
DELTA-P	5.4	0.4	0.1	-0.7	0.3	-0.5	0.5	4.7*	-0.5	0.8	2.6	0.6	-2.4#	3.6	-2.7#	-0.5	-0.6	4.2*	0.1	-1.7
STD ERR OF DP		1.1	0.8	0.6	1.0	0.5	0.5	2.3	0.3	0.8	1.5	0.8	0.9	2.2	1.0	0.6	1.0	1.9	1.9	1.4
STD ERR OF P	0.5	1.3	0.9	0.5	1.3	0.6	0.8	2.4	0.6	0.9	1.6	1.1	0.9	2.3	0.9	0.8	1.0	2.0	2.0	1.5
RESPONSE: 23 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	18.9	0.9	0.5	-4.0#	3.4	1.1	-1.0	3.0	-0.6	8.8#	2.5	0.2	-0.5	[illegible]	-0.4	0.3	-3.4	6.1	1.1	-2.4
STD ERR OF DP		2.3	2.1	1.4	2.4	1.1	1.0	2.5	0.4	3.1	3.1	1.5	1.3	5.5	3.1	1.6	1.9	5.8	3.0	2.6
STD ERR OF P	1.2	2.6	2.5	1.3	2.9	1.8	1.3	2.8	1.2	3.4	3.3	2.1	1.6	5.8	3.1	2.0	1.7	6.2	3.1	2.7

EXERCISE: RG01

If y dollars are shared equally among four boys, how many dollars does each boy receive?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 23 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	16.3	-0.5	-1.2	-2.1	3.9*	-0.9	0.8	3.0	-1.1	0.8	-1.3	1.6	-1.9	-3.3	1.1	-0.6	-1.9	6.9	1.8	-1.5
STD ERR OF DP		1.7	1.5	1.8	1.9	1.0	0.9	2.6	0.6	2.8	2.3	1.5	0.9	2.8	2.2	1.4	2.0	5.9	2.7	2.2
STD ERR OF P	1.0	1.8	1.6	2.1	2.4	1.3	1.5	2.9	1.1	2.7	2.2	2.0	1.2	3.0	2.0	1.6	2.0	6.2	3.1	2.3
AGE: Ad																				
DELTA-P	10.9	1.4	-1.9	0.6	0.1	2.7#	-2.5#	3.0	-1.0#	3.5*	2.7	-4.1#	-0.4	3.2	2.1	-2.4*	-1.5	-5.1*	4.4	3.9
STD ERR OF DP		2.0	1.4	1.4	1.4	1.0	1.0	2.6	0.4	1.6	1.8	1.1	1.6	2.9	5.5	1.1	2.2	2.4	3.2	2.8
STD ERR OF P	0.9	2.4	1.5	1.6	1.5	1.6	1.0	2.5	0.9	1.9	2.0	1.1	2.1	3.1	5.9	1.0	2.1	2.4	3.4	3.1
RESPONSE: 24 AGE: 13 TEXT: $1; 1																				
DELTA-P	22.8	2.5	0.6	-3.0	0.7	1.1	-1.0	4.2	-0.5	-3.0	5.3	1.9	-3.1#	5.5	-5.5	2.5	-2.8	0.4	-1.0	-1.8
STD ERR OF DP		2.2	1.9	2.0	2.2	1.0	0.9	3.2	0.5	5.3	3.7	1.3	1.1	5.2	5.1	1.6	2.6	4.7	3.4	2.5
STD ERR OF P	1.2	2.4	2.2	2.5	2.5	1.5	1.6	3.6	1.2	5.3	4.0	2.0	1.4	5.5	5.5	1.7	2.6	5.0	3.6	2.6
AGE: 17																				
DELTA-P	12.2	1.2	2.2	-0.4	-2.8	-2.2#	2.0*	7.8#	-1.6#	1.7	4.3*	0.2	-2.6#	2.5	1.3	-1.2	-1.0	2.1	3.5	-5.2#
STD ERR OF DP		1.9	1.4	1.2	1.6	0.9	0.8	2.5	0.4	3.1	2.1	1.2	1.0	2.7	3.8	1.2	1.7	3.1	2.4	2.0
STD ERR OF P	0.9	2.2	1.6	1.3	1.9	1.0	1.4	2.8	0.9	3.2	2.2	1.5	1.1	2.9	4.1	1.3	1.7	3.4	2.6	1.9
AGE: Ad																				
DELTA-P	19.1	4.0*	-2.3	-0.9	0.2	-2.5#	2.3#	9.3#	-1.5#	4.3*	3.0	1.0	-8.1#	1.9	-0.3	3.4#	2.8	-8.3#	-3.3	-4.8
STD ERR OF DP		1.9	1.6	1.8	2.3	1.0	0.9	3.2	0.5	1.8	2.0	1.4	1.5	2.7	2.3	1.3	3.3	3.1	3.1	2.5
STD ERR OF P	1.1	2.0	1.8	2.1	2.8	1.4	1.5	3.6	1.2	2.1	2.2	2.0	1.5	3.0	1.9	1.7	3.7	3.1	3.1	2.7
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	32.5	0.0	-1.1	8.4#	-9.0#	-3.5#	3.2#	-7.0*	1.3#	-0.5	-0.4	-1.0	-1.4	-4.9	5.4	-0.6	5.4	-2.4	-4.8	0.8
STD ERR OF DP		2.4	1.9	2.7	1.8	1.1	1.1	3.0	0.5	4.6	4.2	1.6	1.5	3.2	7.8	1.9	3.9	4.5	3.5	2.9
STD ERR OF P	1.4	2.6	2.0	3.6	1.5	1.7	1.8	2.9	1.6	4.8	4.6	2.3	1.6	2.9	8.4	2.0	4.3	4.6	3.6	2.9
AGE: 17																				
DELTA-P	14.1	2.5	2.4	-1.8	-2.4	-1.5	1.3	7.0#	-1.1#	7.9#	8.5#	2.8*	-6.9#	10.1#	0.9	1.3	-2.2	-1.7	-1.1	-7.5#
STD ERR OF DP		1.4	1.7	1.6	1.5	0.9	0.8	2.3	0.5	3.1	2.1	1.3	0.9	3.2	4.6	1.2	2.0	2.7	2.2	1.6
STD ERR OF P	0.9	1.4	2.0	2.0	1.7	1.1	1.3	2.4	1.1	3.1	2.4	1.6	1.0	3.2	4.8	1.4	2.0	2.6	2.5	1.6
AGE: Ad																				
DELTA-P	27.4	2.1	-1.6	2.5	-3.0	-9.3#	8.7#	5.5	-0.9	8.2#	2.8	-0.3	-13.7#	12.1#	5.6	0.5	-4.7	2.6	-2.6	-8.7#
STD ERR OF DP		2.5	2.1	2.6	2.2	1.1	1.1	4.0	0.6	1.9	3.1	1.8	1.9	4.3	4.2	1.5	2.5	5.2	3.3	2.8
STD ERR OF P	1.4	2.7	2.2	3.4	2.4	1.5	1.9	4.4	1.4	2.4	3.8	2.2	1.8	4.7	4.4	1.6	2.5	5.7	3.9	3.1

RG02
OBJ III

Apples cost a cents per pound and pears cost p cents per pound. What is the total cost of two pounds of apples and one pound of pears?

ANSWER ______________________

Report #: RG02

NAEP #: G20003-23

Content Area: G. ALGEBRAIC EXPRESSIONS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		08-21	04-01
National P-value:			
	RG02	20.63	51.26

		13	17
Timing: (in seconds)			
	Stimulus:	11	11
	Response:	26	26
RG02	Exercise total:	37	37

SCORING GUIDE
RG02
G20003-23

00 = No Response

10 = (2a + p)¢; (2a + p); 2a + p¢; a + a + p

20 = 3ap; 2ap; aap

21 = a + p; 2(a + p); 2a + 2p

22 = Other Unacceptable

39 = I Don't Know.

EXERCISE: BG02

Apples cost a cents per pound and pears cost p cents per pound. What is the total cost of two pounds of apples and one pound of pears?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	4.7	-0.9	1.1	0.9	-1.2	0.5	-0.5	2.8	-1.1#	-1.0	2.4	0.0	-0.8	7.0#	-2.9*	-0.6	-2.6#	1.2	3.0	-1.9
STD ERR OF DP		0.9	1.2	0.9	0.9	0.5	0.5	1.8	0.3	1.4	2.4	0.9	0.6	2.5	1.2	0.7	1.0	1.5	2.4	1.3
STD ERR OF P	0.6	1.0	1.6	1.1	0.9	0.8	0.8	2.0	0.6	1.4	2.5	1.1	0.7	2.5	1.0	0.7	1.0	1.6	2.7	1.2
AGE: 17																				
DELTA-P	3.7	1.3	-0.9	0.2	-0.4	1.1#	-1.1#	4.7#	-0.9#	2.7	3.3*	-0.2	-1.4#	3.1	3.2*	-0.7	-2.2#	0.9	0.7	-1.5
STD ERR OF DP		0.7	0.6	0.6	0.8	0.4	0.4	1.6	0.3	1.6	1.6	0.7	0.5	1.8	1.4	0.6	0.7	1.8	1.5	1.2
STD ERR OF P	0.4	0.7	0.7	0.6	1.0	0.6	0.5	1.8	0.4	1.8	1.7	0.9	0.5	1.8	1.4	0.8	0.7	1.8	1.6	1.2
RESPONSE: 10* AGE: 13 TEXT: (2a + p)#; 2a + p#; (2a + p); a + a + p																				
DELTA-P	20.6	-1.6	-8.1#	4.0	5.8*	-1.1	1.2	-17.6#	3.9#	-13.6#	-4.9	-5.5#	11.4#	-17.2#	-1.6	2.0	2.7	-5.7*	-2.1	11.8#
STD ERR OF DP		2.1	2.3	2.4	2.6	0.9	0.9	1.5	0.6	2.1	2.5	1.6	1.3	2.0	4.5	2.2	3.0	2.9	3.0	3.7
P-VALUE	20.6	19.1	12.5	24.6	26.4	19.5	21.8	3.0	24.5	7.0	15.7	15.1	32.0	3.5	19.0	22.7	23.3	14.9	18.6	32.5
STD ERR OF P	1.4	2.3	2.6	2.8	3.0	1.7	1.6	1.0	1.6	2.0	2.5	1.6	2.2	1.6	4.7	2.6	3.1	2.7	3.4	3.9
AGE: 17																				
DELTA-P	51.3	-12.3#	1.3	-2.0	10.3#	1.3	-1.3	-34.5#	5.6#	-29.4#	-22.4#	-2.8	14.0#	-22.1#	-13.6*	-1.7	3.5	2.6	4.7	18.1#
STD ERR OF DP		3.0	2.8	2.6	3.3	1.4	1.4	2.4	0.9	3.4	3.2	1.5	1.6	3.5	5.7	2.5	3.9	4.4	3.8	5.2
P-VALUE	51.3	38.9	52.6	49.3	61.6	52.5	50.0	16.7	56.9	21.8	28.8	48.5	65.3	29.1	37.7	49.6	54.8	53.9	55.9	69.4
STD ERR OF P	1.7	3.2	3.0	3.0	4.0	1.9	2.4	1.9	1.8	3.6	3.3	2.3	2.1	3.3	5.8	2.6	4.2	4.5	4.0	5.8
RESPONSE: 20 AGE: 13 TEXT: 3ap; 2ap; aap																				
DELTA-P	11.7	0.2	0.4	-1.2	0.6	0.7	-0.7	-3.2	1.1#	-3.5	2.2	3.8#	-0.6	-5.2*	1.5	2.5#	-1.4	-2.0	-0.2	-0.4
STD ERR OF DP		1.5	1.2	1.0	1.3	0.7	0.7	1.8	0.3	2.6	2.8	1.2	0.9	2.2	2.3	0.9	1.4	2.6	1.5	1.7
STD ERR OF P	0.7	1.9	1.3	1.0	1.4	0.9	1.1	1.8	0.9	2.5	3.0	1.5	1.0	2.2	2.5	1.2	1.6	2.8	1.4	1.8
AGE: 17																				
DELTA-P	10.3	0.2	1.0	-0.6	-0.3	-0.5	0.5	1.5	-0.2	5.4	2.0	0.8	-1.8	-0.5	-1.7	2.5	0.1	0.1	-2.1	-2.4
STD ERR OF DP		1.5	1.1	1.1	1.5	0.8	0.8	2.0	0.4	3.4	1.9	1.0	1.0	2.7	1.6	1.3	1.4	2.1	1.6	2.4
STD ERR OF P	0.8	1.6	1.1	1.3	1.9	1.3	1.0	1.9	0.9	3.7	2.0	1.3	1.2	2.7	1.5	1.8	1.3	2.1	1.7	2.6
RESPONSE: 21 AGE: 13 TEXT: a + p; 2(a + p); 2a + 2p																				
DELTA-P	3.9	1.7	-1.5#	-0.4	0.4	-0.8	0.8	-1.8	0.4*	-2.7#	-0.2	0.8	0.2	-1.0	0.0	-0.4	2.0	0.8	-1.3	-0.4
STD ERR OF DP		1.1	0.6	0.7	0.8	0.5	0.5	1.0	0.2	1.0	1.5	0.9	0.6	1.4	1.2	0.6	1.5	1.4	1.6	1.1
STD ERR OF P	0.5	1.4	0.4	0.7	0.9	0.6	0.7	0.9	0.6	0.8	1.5	0.9	0.9	1.4	1.2	0.6	1.8	1.5	1.0	1.2
AGE: 17																				
DELTA-P	3.7	0.1	0.2	0.4	-0.7	-0.3	0.3	-0.9	0.3	-2.5#	-2.1*	1.3*	0.4	-0.5	2.5	-1.4*	0.7	-1.8	1.0	1.2
STD ERR OF DP		1.1	0.9	0.9	0.8	0.6	0.6	1.0	0.2	0.8	0.9	0.6	0.4	1.2	3.3	0.7	1.3	1.1	1.3	1.4
STD ERR OF P	0.5	1.2	1.1	1.1	0.9	0.7	0.9	1.0	0.6	0.6	0.7	0.9	0.8	1.2	3.5	0.7	1.4	1.1	1.4	1.4
RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	30.0	3.4	4.0*	-2.8	-4.7	1.8	-1.8	17.1#	-3.5#	18.9#	-0.5	1.3	-4.8#	8.1*	8.3	-1.3	-1.5	4.6	-3.5	-6.8
STD ERR OF DP		1.8	1.8	2.3	2.7	1.1	1.1	3.5	0.7	3.4	3.1	1.7	1.3	3.5	5.3	1.8	1.9	3.7	2.4	3.9
STD ERR OF P	1.2	1.8	1.9	2.8	3.2	1.5	1.8	3.5	1.4	3.7	3.3	2.2	1.6	3.8	5.7	2.0	1.7	3.9	2.5	4.3
AGE: 17																				
DELTA-P	15.0	5.3*	-0.7	0.5	-3.9#	0.4	-0.4	14.6#	-2.5#	8.9*	8.7#	-0.5	-4.0#	9.8#	7.2*	0.3	-1.1	1.7	-4.1#	-8.1#
STD ERR OF DP		2.3	1.3	1.3	1.5	0.9	0.9	2.4	0.5	4.3	2.0	1.2	0.9	3.0	3.0	1.3	1.6	2.8	1.6	2.0
STD ERR OF P	0.9	2.7	1.2	1.4	1.8	1.3	1.3	2.6	0.8	4.5	2.3	1.5	1.1	3.2	3.2	1.4	1.7	2.9	1.7	2.3
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	29.1	-2.7	4.1	-0.5	-0.9	-1.0	1.0	2.8	-0.8	1.9	1.1	-0.4	-5.3#	8.2*	-5.2*	-2.3	0.8	1.0	4.0	-2.3
STD ERR OF DP		2.3	2.5	2.3	2.4	1.0	1.0	2.5	0.5	3.3	3.2	1.5	1.2	3.4	2.5	1.9	3.7	3.6	4.5	3.7
STD ERR OF P	1.4	2.6	3.0	2.8	2.7	1.7	1.8	2.7	1.6	3.3	3.4	1.8	1.9	3.3	2.6	2.3	4.1	3.7	4.9	4.1

EXERCISE: RG02

Apples cost a cents per pound and pears cost p cents per pound. What is the total cost of two pounds [illegible] ples and one pound of pears?

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	16.0	5.5*	-0.9	1.5	-5.0*	-2.0	2.0	14.6*	-2.3*	14.9*	10.6*	1.4	-7.3*	10.3*	2.3	0.9	-1.1	-3.5	-0.1	-7.4*
STD ERR OF DP		1.9	1.8	1.8	1.4	1.0	1.1	2.4	0.5	4.0	3.1	1.1	1.0	2.8	3.5	1.7	2.5	2.7	1.9	2.6
STD ERR OF P	1.0	2.2	2.1	2.3	1.3	1.4	1.5	2.6	1.1	4.0	3.4	1.6	1.1	2.8	3.7	2.0	2.7	2.9	1.9	2.7

RG03
OBJ II

(r + s) - (r - s) =

ANSWER ____________________

Report #: RG03

NAEP #: G41003-3

Content Area: G. ALGEBRAIC EXPRESSIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 17
Package-Exercise: 05-25
National P-value:
RG03 29.07

Timing: (in seconds)
Stimulus: 7
Response: 17
RG03 Exercise total: 24

SCORING GUIDE
RG03
G41003-3

00 = No Response

10 = 2s; s + s

20 = -2s

21 = 0

22 = s squared

23 = rs; -rs; 2rs; -2rs

24 = 2r; -2r

25 = r squared - s squared;
s squared - r squared;
r squared + s squared;
(r squared) + s - r + (s squared);
attempt to multiply together the expressions within the parentheses (answer has both r squared ans s squared)

26 = 2r + 2s; 2(r + s)

27 = r + s; r - s; -r + s; -r - s

28 = r; s; -r; -s

29 = Other Unacceptable

39 = I Don't Know.

EXERCISE: RG03

(r + s) - (r - s) =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	2.4	0.2	0.5	-0.4	-0.2	-0.1	0.1	1.4	-0.6	1.5	-1.6#	0.8	-0.8*	2.1	1.0	-0.3	-1.3	1.1	-0.9	-0.0
STD ERR OF DP		0.8	0.8	0.6	0.6	0.5	0.4	1.3	0.3	1.3	0.6	0.7	0.4	1.4	1.4	0.5	0.6	1.4	0.9	1.1
STD ERR OF P	0.4	0.9	0.9	0.7	0.7	0.6	0.6	1.3	0.4	1.3	0.5	0.8	0.5	1.5	1.4	0.7	0.6	1.5	0.9	1.1
RESPONSE: 10* AGE: 17	TEXT: 2s; s + s																			
DELTA-P	29.1	-5.2	-2.6	-1.4	8.2#	0.8	-0.7	-21.0#	4.8#	-23.4#	-15.5#	-5.3#	14.0#	-18.6#	-7.8	-1.2	2.6	-6.3	3.0	19.9#
STD ERR OF DP		2.7	2.8	2.1	3.1	1.5	1.3	1.9	0.7	2.3	2.6	1.8	1.4	2.4	4.0	1.9	3.7	4.2	3.3	5.0
P-VALUE	29.1	23.9	26.5	27.7	37.3	29.9	28.4	8.1	33.8	5.7	13.6	23.8	43.0	10.5	21.2	27.8	31.7	22.7	32.0	49.0
STD ERR OF P	1.6	2.8	3.2	2.1	3.9	1.8	2.3	1.6	1.6	1.7	2.7	2.4	1.9	2.3	3.9	1.8	3.9	4.3	3.1	5.8
RESPONSE: 20 AGE: 17	TEXT: -2s																			
DELTA-P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF DP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RESPONSE: 21 AGE: 17	TEXT: 0																			
DELTA-P	22.8	2.8	-2.7	2.5	-2.6	1.1	-0.9	-1.0	0.4	-1.5	13.4#	0.9	-3.4#	2.3	-0.3	3.0	-4.0	3.2	-4.7	-2.8
STD ERR OF DP		1.9	2.1	2.3	2.4	1.2	1.0	2.7	0.5	3.0	3.2	2.1	1.1	4.0	3.4	1.7	2.8	3.7	2.7	3.6
STD ERR OF P	1.3	1.8	2.4	2.8	2.8	1.9	1.5	2.9	1.4	3.2	3.3	2.7	1.4	4.3	3.5	2.1	3.0	4.0	2.6	3.9
RESPONSE: 22 AGE: 17	TEXT: s squared																			
DELTA-P	0.8	-0.1	0.3	0.3	-0.5	0.3	-0.3	0.5	-0.2	0.6	0.1	0.2	-0.2	0.3	0.1	-0.3	1.2	-0.4	0.0	-0.5
STD ERR OF DP		0.4	0.3	0.5	0.3	0.3	0.3	0.8	0.2	0.8	0.5	0.3	0.2	0.8	0.6	0.3	1.2	0.4	0.6	0.4
STD ERR OF P	0.2	0.4	0.3	0.6	0.2	0.5	0.2	0.9	0.2	0.9	0.6	0.3	0.2	0.8	0.6	0.3	1.4	0.4	0.6	0.3
RESPONSE: 23 AGE: 17	TEXT: rs; -rs; 2rs; -2rs																			
DELTA-P	4.1	1.9*	0.1	-0.8	-0.7	0.5	-0.4	5.8#	-1.0#	-0.7	4.8	1.2	-2.1#	-0.0	-0.8	1.1	1.1	1.4	-1.3	-3.2#
STD ERR OF DP		0.9	0.9	0.7	1.0	0.5	0.4	1.5	0.3	1.3	2.6	0.7	0.5	1.4	1.1	0.7	1.4	1.7	1.2	0.7
STD ERR OF P	0.5	1.1	1.1	0.8	1.2	0.7	0.6	1.6	0.5	1.3	2.9	0.8	0.5	1.4	1.2	0.9	1.5	1.7	1.2	0.6
RESPONSE: 24 AGE: 17	TEXT: 2r; -2r																			
DELTA-P	0.6	0.0	0.3	-0.4*	0.1	0.1	-0.1	0.1	0.0	0.5	-0.6#	-0.3	0.4	-0.6#	-0.4	0.5	-0.3	-0.3	-0.5*	0.3
STD ERR OF DP		0.4	0.4	0.2	0.3	0.2	0.2	0.4	0.1	0.7	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.6
STD ERR OF P	0.2	0.4	0.5	0.1	0.4	0.3	0.3	0.5	0.2	0.8	0.0	0.2	0.4	0.0	0.2	0.4	0.3	0.3	0.1	0.6
RESPONSE: 25 AGE: 17	TEXT: r squared +/- s squared; s squared-r squared; (r squared)+s-r+(s squared); attempt to multiply expressions (answer has both r and s squared)																			
DELTA-P	3.2	0.0	0.7	-0.1	-0.6	0.0	-0.0	1.0	-0.2	2.0	0.3	-0.3	-0.1	-0.6	4.2	-0.7	-0.5	1.8	0.3	-1.3
STD ERR OF DP		0.8	0.9	0.9	0.7	0.5	0.5	1.2	0.2	2.1	1.1	0.6	0.5	1.0	2.4	0.6	0.9	1.4	1.1	0.8
STD ERR OF P	0.5	0.8	1.1	1.2	0.8	0.8	0.6	1.2	0.6	2.3	1.2	0.7	0.6	1.0	2.7	0.7	1.0	1.4	1.1	0.8
RESPONSE: 26 AGE: 17	TEXT: 2(r + s); 2r + 2s																			
DELTA-P	1.8	-0.9*	0.2	-0.9	1.6	-0.1	0.1	-0.1	0.1	-0.4	-0.9	-0.9*	0.7	-1.2	0.6	0.2	-0.0	2.5	-0.9*	-0.5
STD ERR OF DP		0.4	0.7	0.5	0.8	0.4	0.3	0.8	0.2	0.8	0.6	0.4	0.4	0.6	1.5	0.5	0.7	3.2	0.4	0.7
STD ERR OF P	0.4	0.3	0.8	0.4	1.1	0.6	0.5	0.8	0.5	0.8	0.5	0.4	0.6	0.5	1.6	0.6	0.6	3.4	0.2	0.7
RESPONSE: 27 AGE: 17	TEXT: r + s; r - s; -r + s; -r - s																			
DELTA-P	5.5	0.8	2.0	-0.1	-2.4#	-0.4	0.4	2.1	-0.7*	2.7	0.8	0.2	-1.6#	1.8	5.3*	-1.0	0.4	0.3	0.4	-2.9#
STD ERR OF DP		0.9	1.1	0.9	0.8	0.5	0.5	1.4	0.4	1.8	1.5	0.9	0.6	2.5	2.6	0.7	1.3	1.8	1.6	1.1
STD ERR OF P	0.6	0.9	1.3	1.2	0.9	0.6	0.9	1.4	0.6	2.0	1.5	1.1	0.7	2.6	2.7	0.8	1.4	1.9	1.7	1.1
RESPONSE: 28 AGE: 17	TEXT: r; -r; s; -s																			
DELTA-P	4.7	1.7	0.2	-0.6	-0.9	0.4	-0.3	-0.3	0.1	-0.3	-1.7	0.9	-0.4	1.0	0.8	-0.3	0.5	-0.0	1.1	-1.8
STD ERR OF DP		1.2	0.8	0.9	0.7	0.6	0.5	1.0	0.2	1.6	0.9	0.8	0.5	2.1	1.2	0.7	1.2	1.8	1.3	1.0
STD ERR OF P	0.5	1.4	0.9	1.1	0.7	0.8	0.6	1.0	0.6	1.5	0.9	1.0	0.7	2.2	1.1	0.9	1.3	2.0	1.4	1.1

EXERCISE: RG03

(r + s) - (r - s)=

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 29 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	9.6	-1.6	2.4	1.3	-2.4	-0.1	0.1	4.5*	-1.2*	0.6	-1.9	1.8	-1.2	5.0*	-2.9	-0.6	-0.4	-0.3	2.1	-1.3
STD ERR OF DP		1.5	1.5	1.4	1.2	0.7	0.6	1.7	0.4	1.8	1.5	1.0	0.7	2.0	2.3	1.1	1.6	2.4	3.6	1.6
STD ERR OF P	0.9	1.6	1.7	1.7	1.4	1.0	1.1	1.8	0.9	1.8	1.7	1.7	0.8	2.1	2.4	1.4	1.7	2.5	3.9	1.7
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	15.3	0.4	-1.5	0.6	0.4	-2.5*	2.2*	7.6*	-1.6*	10.3*	2.8	0.7	-5.2*	8.5*	0.2	-0.3	0.8	-2.9	1.4	-5.9*
STD ERR OF DP		1.5	1.4	1.2	1.5	0.9	0.8	2.5	0.4	3.2	2.9	1.4	0.8	3.6	3.5	1.1	1.9	2.8	2.3	2.2
STD ERR OF P	0.8	1.7	1.6	1.3	1.8	1.1	1.2	2.6	0.8	3.3	2.9	1.6	0.9	3.8	3.7	1.3	1.9	2.9	2.3	2.4

9

RG04
OBJ II

If x = 3, what is the value of $x^2 - 1$?

ANSWER ____________________

Report #: RG04

NAEP #: G50005-234

Content Area: G. ALGEBRAIC EXPRESSIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		03-14	06-12	05-22
National P-value:				
	RG04	45.01	75.22	49.07
Timing: (in seconds)				
	Stimulus:	6	5	5
	Response:	24	25	*
RG04	Exercise total:	30	30	*

*Time not limited by paced tape.

SCORING GUIDE
RG04
G50005-234

00 = No Response

10 = 8; (3 squared) - 1; 9 - 1

20 = 9; 3 squared

21 = 4; 2 squared; (3 - 1) squared

22 = Other Unacceptable

23 = 5

24 = 2

39 = I Don't Know.

EXERCISE: R909

If x = 3, what is the value of x squared - 1?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	2.4	-0.4	-0.1	0.2	0.3	0.3	-0.3	0.9	-0.6*	4.5	2.1	-0.8	-0.8	-0.7	3.2	-0.5	-0.3	0.6	0.5	-1.8#
STD ERR OF DP		0.7	0.9	0.7	0.7	0.3	0.3	1.0	0.3	2.7	1.6	0.5	0.6	0.8	2.5	0.5	0.8	1.1	1.1	0.6
STD ERR OF P	0.4	0.7	1.0	0.9	0.8	0.6	0.5	1.1	0.4	2.8	1.7	0.5	0.7	0.8	2.8	0.5	0.9	1.2	1.1	0.5
AGE: 17																				
DELTA-P	1.6	1.6	0.0	-1.0*	-0.3	0.2	-0.2	3.8#	-0.7#	0.9	0.6	-0.3	-0.7#	2.1	0.2	-0.6	0.2	0.8	0.9	-1.6#
STD ERR OF DP		1.2	0.6	0.4	0.5	0.3	0.3	1.3	0.2	0.7	0.9	0.4	0.2	1.8	0.6	0.4	0.7	1.5	1.7	0.4
STD ERR OF P	0.4	1.5	0.6	0.3	0.5	0.5	0.5	1.6	0.3	0.7	0.9	0.7	0.4	1.8	0.5	0.4	0.7	1.5	2.0	0.0
AGE: Ad																				
DELTA-P	2.0	2.1	0.4	-1.4*	-0.6	0.2	-0.2	0.9	0.0	1.2	0.0	-0.2	-1.2	-1.3	8.2	-0.5	-0.4	0.3	-0.7	-2.0#
STD ERR OF DP		2.1	0.9	0.7	0.7	0.4	0.4	1.4	0.2	0.8	0.9	0.7	0.7	0.8	5.9	0.7	0.8	1.0	1.3	0.6
STD ERR OF P	0.6	2.7	0.9	0.2	0.4	1.0	0.5	1.4	0.7	1.4	1.4	0.5	0.3	0.5	6.4	0.5	0.5	0.9	1.3	0.0
RESPONSE: 10* AGE: 13 TEXT: 8; (3 squared) - 1; 9 - 1																				
DELTA-P	45.0	-6.0*	-6.0	3.1	6.9	-2.1*	2.2*	-27.2#	6.5#	-18.3#	-11.2#	-1.2	12.9#	-18.5#	-5.8	-1.0	4.9	-2.9	-3.0	16.6#
STD ERR OF DP		2.8	3.3	2.7	3.9	1.0	1.1	2.8	1.0	5.0	3.5	1.9	1.5	4.6	7.9	2.7	3.6	6.8	5.0	4.0
P-VALUE	45.0	39.0	39.0	48.1	51.9	42.9	47.2	17.9	51.5	26.7	33.8	43.8	57.9	26.5	39.2	44.0	49.9	42.1	42.0	61.6
STD ERR OF P	1.9	2.7	3.7	3.0	4.9	2.0	2.4	2.5	1.8	5.6	3.3	2.3	2.4	4.2	8.4	3.1	3.8	7.4	4.9	4.0
AGE: 17																				
DELTA-P	75.2	-12.9#	-0.4	3.4	6.8#	-0.7	0.7	-31.8#	5.7#	-23.1#	-18.1#	0.5	11.9#	-19.7#	-2.0	-1.1	-4.1	1.8	5.9*	11.8#
STD ERR OF DP		3.0	2.0	1.7	1.9	1.1	1.0	3.0	0.8	4.3	3.4	1.7	1.1	5.0	4.5	1.9	3.9	4.9	2.8	2.7
P-VALUE	75.2	62.3	74.9	78.6	82.0	74.5	75.9	43.4	80.9	52.1	57.1	75.7	87.1	55.5	73.2	74.1	71.1	77.1	81.1	87.0
STD ERR OF P	1.3	3.5	2.1	1.8	2.3	1.6	1.7	3.4	1.2	4.5	3.7	2.3	1.3	5.2	4.8	2.1	4.0	5.2	2.9	2.9
AGE: Ad																				
DELTA-P	48.1	-5.6*	1.9	-0.8	3.6	6.4#	-5.9#	-32.1#	5.0#	-17.8#	-13.0#	3.8*	24.7#	-17.9#	-12.9#	-4.1*	6.7	-1.0	1.8	25.8#
STD ERR OF DP		2.4	2.7	2.3	2.8	1.2	1.2	2.6	0.7	2.1	2.6	1.8	2.1	4.2	3.6	1.8	4.6	4.3	3.7	3.4
P-VALUE	48.1	42.5	49.9	47.3	51.7	54.4	42.2	15.9	53.1	30.3	35.1	51.9	72.8	30.2	35.2	44.0	54.8	47.1	49.9	73.8
STD ERR OF P	1.5	2.4	3.2	2.7	3.4	1.8	2.0	2.4	1.5	2.5	2.4	2.1	2.7	4.3	3.8	2.0	5.0	4.5	4.1	3.6
RESPONSE: 20 AGE: 13 TEXT: 9; 3 squared																				
DELTA-P	0.4	0.2	-0.2	0.2	-0.2	-0.1	0.1	-0.2	0.1	0.1	0.5	-0.1	-0.0	0.5	-0.4*	0.3	-0.1	0.3	-0.4*	-0.4*
STD ERR OF DP		0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.5	0.6	0.2	0.1	0.7	0.2	0.3	0.3	0.5	0.2	0.2
STD ERR OF P	0.2	0.4	0.2	0.5	0.2	0.2	0.3	0.2	0.2	0.5	0.7	0.2	0.2	0.8	0.0	0.5	0.3	0.5	0.0	0.0
AGE: 17																				
DELTA-P	0.1	-0.1	-0.1	0.3	-0.1	-0.0	0.0	-0.0	0.0	-0.1	-0.0	0.1	-0.1	-0.1	-0.1	0.3	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.1	0.0	0.3	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.2	-0.2	0.1	0.2	-0.2	-0.1	0.1	-0.2	0.0*	-0.2	0.2	-0.0	0.0	-0.2	-0.2	0.2	-0.2	-0.2	-0.2	0.2
STD ERR OF DP		0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.4	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.4
STD ERR OF P	0.1	0.0	0.2	0.3	0.0	0.1	0.2	0.0	0.1	0.0	0.4	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.4
RESPONSE: 21 AGE: 13 TEXT: 4; 2 squared; (3 - 1) squared																				
DELTA-P	3.8	1.2	-0.2	0.3	-1.1	0.1	-0.1	1.2	-0.3	2.1	-1.9	0.6	-0.9	3.5*	-1.1	-0.0	-0.6	0.4	1.0	-1.5
STD ERR OF DP		0.8	0.8	0.8	0.6	0.5	0.5	1.2	0.2	2.3	1.3	0.7	0.6	1.7	1.0	0.7	1.1	1.2	1.5	1.0
STD ERR OF P	0.5	0.9	1.0	1.1	0.5	0.7	0.6	1.3	0.5	2.4	1.3	0.9	0.6	1.7	1.0	0.9	1.1	1.3	1.7	1.0
AGE: 17																				
DELTA-P	1.7	0.5	0.0	-0.4	0.0	0.2	-0.2	3.4#	-0.5#	0.6	0.7	0.5	-0.9#	2.9*	0.5	-0.2	0.7	0.2	-1.0*	-1.0
STD ERR OF DP		0.5	0.4	0.4	0.6	0.3	0.3	1.1	0.2	1.1	0.6	0.5	0.3	1.3	0.9	0.5	0.9	1.2	0.4	0.6
STD ERR OF P	0.3	0.5	0.4	0.5	0.7	0.5	0.4	1.2	0.3	1.1	0.7	0.7	0.3	1.3	0.9	0.6	0.9	1.2	0.4	0.6

EXERCISE: RG04

If x = 3, what is the value of x squared - 1?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad TEXT: 4; 2 squared; (3 - 1) squared																				
DELTA-P	0.9	-0.3	0.2	-0.4	0.6	0.1	-0.1	-0.5	-0.1	0.2	0.1	-0.2	-0.3	-0.4	-0.6	0.4	-0.3	1.3	-0.4	-0.6
STD ERR OF DP		0.3	0.4	0.4	0.5	0.2	0.2	0.5	0.1	0.4	0.5	0.4	0.4	0.6	0.4	0.3	0.5	1.3	0.5	0.4
STD ERR OF P	0.2	0.3	0.4	0.4	0.6	0.3	0.3	0.5	0.3	0.5	0.6	0.4	0.4	0.6	0.4	0.5	0.5	1.4	0.5	0.4
RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	18.7	4.0*	0.7	-1.4	-2.2	0.1	-0.1	19.7#	-4.1#	12.0#	5.4	-1.3	-4.8#	8.5#	5.2	1.2	-4.3*	2.8	-0.5	-8.9#
STD ERR OF DP		1.7	2.0	1.4	2.1	0.8	0.9	2.5	0.7	3.4	3.4	1.6	0.9	3.3	4.3	1.6	2.0	3.5	3.2	2.1
STD ERR OF P	1.0	1.8	2.4	1.6	2.6	1.4	1.3	2.6	0.9	3.7	3.5	1.6	1.4	3.3	4.6	1.9	2.0	3.9	3.2	1.8
AGE: 17																				
DELTA-P	6.3	2.9	1.3	-1.4	-2.0	0.4	-0.4	7.9#	-1.7#	8.5#	4.8#	-1.0	-3.1#	4.5*	0.9	2.4#	1.3	-3.0	-3.6#	-4.5#
STD ERR OF DP		1.8	1.2	0.9	1.0	0.6	0.5	1.9	0.4	2.4	1.6	0.9	0.6	1.9	1.5	0.9	1.7	1.6	1.3	1.2
STD ERR OF P	0.6	2.1	1.3	0.9	1.1	0.9	0.8	2.2	0.6	2.7	1.9	0.9	0.7	2.0	1.5	1.3	1.8	1.5	1.4	1.2
AGE: Ad																				
DELTA-P	5.6	0.4	1.7	-0.3	-1.7*	0.8	-0.8	4.6*	-1.2#	2.7*	2.7*	-0.6	-3.6#	1.9	2.0	0.7	0.6	-1.8	0.4	-4.4#
STD ERR OF DP		1.0	0.9	0.8	0.8	0.6	0.6	2.2	0.3	1.2	1.2	0.9	0.7	1.8	1.7	1.1	2.3	1.6	1.6	1.1
STD ERR OF P	0.5	1.1	1.1	1.0	0.8	0.8	0.8	2.2	0.6	1.3	1.4	1.1	0.6	1.8	1.7	1.4	2.2	1.6	1.7	0.9
RESPONSE: 23 AGE: 13 TEXT: 5																				
DELTA-P	11.3	-1.2	2.8	-0.9	-0.5	1.2	-1.3	-1.3	0.3	-3.9	-1.0	0.4	0.4	-3.4	-4.5*	-0.2	-1.9	-0.7	4.8*	2.7
STD ERR OF DP		1.4	1.9	1.3	1.6	0.8	0.9	1.7	0.4	2.1	2.1	1.1	1.0	2.7	1.9	1.3	1.5	3.1	2.2	2.2
STD ERR OF P	0.9	1.3	2.3	1.5	1.9	1.3	1.2	1.7	1.0	2.1	2.2	1.1	1.5	2.8	1.9	1.4	1.4	3.5	2.4	2.4
AGE: 17																				
DELTA-P	5.9	2.3	-0.5	0.1	-1.6	-0.2	0.2	5.7#	-1.0#	3.8*	2.6	-0.2	-2.0#	0.5	-2.5	-0.7	1.9	3.0	-0.5	0.5
STD ERR OF DP		1.3	0.9	0.8	0.9	0.6	0.5	1.8	0.3	1.8	1.5	0.8	0.6	1.4	1.3	0.8	1.7	1.9	1.3	1.8
STD ERR OF P	0.6	1.5	1.0	0.9	1.1	0.8	0.8	2.0	0.6	1.9	1.6	0.9	0.8	1.5	1.2	1.0	1.8	2.0	1.4	1.9
AGE: Ad																				
DELTA-P	8.7	-1.9	2.1	-1.3	0.9	-2.3#	2.1#	4.9	-0.3	-1.9	2.9	-1.7	1.8	-0.3	0.4	-0.2	-2.5	0.4	1.4	1.3
STD ERR OF DP		1.4	1.3	1.1	1.2	0.7	0.6	2.7	0.4	1.0	1.7	1.1	1.4	2.1	2.1	0.8	1.6	2.9	2.0	2.3
STD ERR OF P	0.7	1.5	1.6	1.2	1.3	0.8	1.1	2.8	0.8	1.2	1.7	1.2	1.7	2.2	2.2	1.1	1.7	2.8	2.0	2.6
RESPONSE: 24 AGE: 13 TEXT: 2																				
DELTA-P	7.0	1.8	1.1	-2.0*	-0.1	1.1*	-1.2*	3.6*	-0.7*	2.0	2.5	1.7	-2.3#	8.0*	-0.8	-0.4	1.9	-1.0	0.2	-3.0#
STD ERR OF DP		1.4	1.3	1.0	0.9	0.5	0.6	1.7	0.3	2.4	2.1	0.9	0.6	3.8	1.4	1.0	1.9	1.5	1.3	1.2
STD ERR OF P	0.6	1.6	1.5	1.2	0.8	0.9	0.8	1.9	0.7	2.5	2.2	1.2	0.7	3.9	1.4	1.3	2.0	1.6	1.5	1.2
AGE: 17																				
DELTA-P	2.8	2.6	-0.1	-0.6	-1.3	-0.3	0.3	2.9	-0.4	5.6	1.6	-0.5	-1.1*	1.2	5.4	-0.1	-1.6*	0.9	-0.9	-2.3#
STD ERR OF DP		1.6	0.7	0.7	0.6	0.6	0.5	1.5	0.2	4.0	1.5	0.7	0.6	1.4	3.9	0.7	0.7	1.6	0.8	0.7
STD ERR OF P	0.5	1.9	0.7	0.8	0.6	0.6	0.9	1.5	0.6	4.4	1.6	0.6	0.5	1.4	4.3	0.7	0.6	1.7	0.8	0.5
AGE: Ad																				
DELTA-P	2.8	0.2	-0.4	0.6	-0.5	0.4	-0.4	2.8	-0.5*	1.8	3.1*	-1.7#	-1.8#	4.8*	-1.2	-0.3	-0.4	0.6	-0.2	-1.5
STD ERR OF DP		0.7	0.6	0.7	0.5	0.4	0.3	1.6	0.2	0.9	1.5	0.4	0.5	2.0	1.2	0.5	0.7	1.7	0.9	0.9
STD ERR OF P	0.4	0.8	0.6	0.9	0.6	0.5	0.5	1.7	0.4	1.0	1.6	0.4	0.5	2.2	1.2	0.6	0.8	1.7	1.0	0.9
RESPONSE: E9 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	11.3	0.4	1.9	0.7	-3.0*	-0.6	0.7	3.3	-1.3*	0.5	3.5	0.8	-4.4#	2.1	4.3	0.6	0.3	0.6	-2.6	-3.7*
STD ERR OF DP		1.6	1.8	1.5	1.4	0.6	0.7	1.9	0.5	2.9	2.7	1.0	0.7	3.6	3.6	1.2	2.2	2.5	2.6	1.8
STD ERR OF P	0.9	1.7	2.2	1.9	1.4	1.0	1.3	2.1	0.9	3.2	2.9	1.3	1.0	3.6	4.0	1.4	2.4	2.8	2.7	1.7

EXERCISE: NG04

If x = 3, what is the value of x squared - 1?

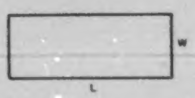
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	6.5	3.1#	-0.3	-0.5	-1.7*	0.4	-0.4	8.2#	-1.4#	3.9*	7.8#	0.9	-4.0#	8.8*	-2.2	0.2	1.7	-3.7#	-0.8	-2.8
STD ERR OF DP		1.2	1.0	1.0	0.8	0.6	0.5	2.3	0.3	1.7	2.0	0.8	0.6	3.6	1.3	0.8	1.6	1.5	1.4	1.5
STD ERR OF P	0.6	1.3	1.1	1.2	0.9	0.9	0.7	2.5	0.5	1.9	2.1	1.1	0.4	3.8	1.3	0.9	1.6	1.4	1.6	1.5

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	31.6	5.2	-5.9*	3.4	-2.1	-5.6#	5.2#	19.6#	-3.0#	13.9#	4.3	0.5	-19.6#	13.3#	4.3	3.8	-3.4	0.4	-2.0	-18.8#
STD ERR OF DP		2.7	2.8	3.1	2.7	1.1	1.1	3.6	0.8	1.9	2.5	1.7	1.6	4.2	5.0	2.2	4.0	5.0	2.5	2.7
STD ERR OF P	1.7	2.7	3.2	3.9	3.0	1.9	2.1	3.7	1.8	2.7	2.8	2.4	1.6	4.3	5.3	3.1	4.0	5.3	2.5	2.9

RG05
OBJ III



The rectangular field pictured above has length L and width W. The total distance around the edges of the field is given by the expression

○ LW.

○ 2LW.

○ L + W.

● 2L + 2W.

○ I don't know.

Report #: RG05

NAEP #: G50019-23A

Content Area: G. ALGEBRAIC EXPRESSIONS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		02-06	07-23	01-11
National P-value:				
	RG05	60.69	69.16	68.15

Timing: (in seconds)				
	Stimulus:	20	18	20
	Response:	10	12	*
	I don't know:	5	5	*
	Pause:	6	6	*
RG05	Exercise total:	41	41	*

*Time not limited by paced tape.

EXERCISE: RG05

A rectangular field has length L and width W. The total distance around the edges of the field is given by the expression

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.1	-0.1	0.2	-0.1	0.0	0.1	-0.1	0.1	-0.0	-0.1	-0.1	-0.1	0.2	-0.1	-0.1	-0.1	-0.1	0.1	0.5	-0.1
STD ERR OF DP		0.1	0.3	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.1
STD ERR OF P	0.1	0.0	0.4	0.0	0.1	0.2	0.0	0.2	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.6	0.0
AGE: 17																				
DELTA-P	0.6	-0.6*	-0.6*	0.1	1.0	-0.1	0.1	0.4	-0.0	-0.6*	-0.6*	-0.1	-0.1	-0.0	-0.6*	-0.4	-0.6*	2.6	0.9	-0.6*
STD ERR OF DP		0.3	0.3	0.3	0.6	0.3	0.2	0.5	0.1	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	2.0	0.9	[illegible]
STD ERR OF P	0.2	0.1	0.0	0.4	0.9	0.3	0.4	0.6	0.2	0.0	0.0	0.3	0.3	0.5	0.0	0.2	0.0	2.2	1.0	0.0
AGE: Ad																				
DELTA-P	0.2	-0.2	-0.2	0.3	0.0	0.1	-0.1	-0.2	0.0	0.0	0.5	-0.1	-0.2	0.4	-0.2	0.1	0.1	-0.2	-0.2	-0.2
STD ERR OF DP		0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.0	0.2	0.5	0.1	0.1	0.5	0.1	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.4	0.2	0.2	0.1	0.0	0.1	0.2	0.6	0.1	0.0	0.5	0.0	0.3	0.2	0.0	0.0	0.0
RESPONSE: 01 AGE: 13 TEXT: LW																				
DELTA-P	12.0	3.2#	0.2	-0.9	-2.1	-0.9	0.9	7.3#	-1.8#	5.7*	5.6	-1.2	-3.3#	1.6	3.8	-0.6	2.0	1.0	-1.9	-3.5
STD ERR OF DP		1.3	1.1	1.4	1.8	0.8	0.8	2.2	0.4	2.7	2.9	1.0	0.8	2.9	2.5	1.0	2.1	2.6	1.6	2.6
STD ERR OF P	0.8	1.3	1.1	1.6	2.2	1.0	1.2	2.3	0.9	2.9	3.0	1.2	1.0	2.8	2.6	1.2	2.3	2.9	1.6	2.9
AGE: 17																				
DELTA-P	10.8	-1.3	1.3	-0.4	0.3	-0.6	0.5	0.7	-0.3	-1.0	-0.3	0.7	0.2	-2.0	-0.2	1.3	-2.7	-3.3	3.1	0.1
STD ERR OF DP		1.3	1.8	1.1	1.5	0.6	0.6	2.0	0.6	4.0	2.0	1.3	1.0	2.2	4.4	1.1	1.5	2.1	2.2	3.0
STD ERR OF P	0.8	1.4	2.2	1.1	1.7	1.1	1.0	2.2	0.9	4.3	2.5	1.3	1.2	2.2	4.7	1.2	1.5	2.0	2.4	3.2
AGE: Ad																				
DELTA-P	7.0	-0.2	2.8*	-1.3	-1.3	-0.8	0.8	-1.6	0.0	0.3	-0.1	-0.9	1.0	-0.2	-3.1	1.2	-0.9	1.8	-2.7	0.6
STD ERR OF DP		1.0	1.4	0.8	1.1	0.6	0.6	1.8	0.3	1.1	1.6	1.0	1.2	1.8	1.5	0.9	1.8	2.7	1.6	1.7
STD ERR OF P	0.6	1.0	1.7	0.9	1.3	1.0	0.8	1.8	0.7	1.3	1.6	1.1	1.5	1.7	1.6	1.2	1.9	2.8	1.7	1.8
RESPONSE: 02 AGE: 13 TEXT: 2LW																				
DELTA-P	4.1	-0.0	-1.4*	0.5	1.0	0.1	-0.1	0.3	0.0	2.3	-0.7	0.9	-0.8	1.0	-0.2	1.0	-1.9*	-0.2	-0.6	-0.2
STD ERR OF DP		0.8	0.7	0.7	1.0	0.4	0.4	1.0	0.2	1.7	0.8	0.7	0.5	1.1	1.0	0.6	0.8	1.1	1.2	1.1
STD ERR OF P	0.5	0.9	0.7	0.8	1.2	0.5	0.7	1.1	0.5	1.7	0.8	0.9	0.6	1.1	1.0	0.8	0.8	1.1	1.5	1.1
AGE: 17																				
DELTA-P	8.1	-2.5*	1.9	-0.4	0.6	-1.0	0.9	0.5	-0.0	-1.7	3.7	-1.7*	0.1	4.3	-4.1#	0.0	1.5	-2.1	0.5	-0.3
STD ERR OF DP		1.1	1.3	1.0	1.8	0.7	0.6	1.4	0.3	1.6	2.1	0.9	1.1	2.8	1.1	1.4	1.4	1.6	1.8	2.3
STD ERR OF P	0.8	1.1	1.4	0.9	2.4	0.9	1.1	1.3	1.0	1.6	2.5	1.2	1.1	2.4	0.8	2.0	1.4	1.6	1.9	2.4
AGE: Ad																				
DELTA-P	8.9	-0.1	1.9	-1.2	-0.5	-0.3	0.3	-0.6	0.0	-0.4	-0.5	0.6	-0.3	0.0	4.0	-1.6	2.5	-4.6#	1.0	2.1
STD ERR OF DP		1.5	2.0	1.4	1.5	0.9	0.8	1.9	0.4	1.4	1.7	1.1	1.6	2.3	2.1	1.1	2.9	1.2	2.9	2.5
STD ERR OF P	0.9	1.5	2.5	1.7	1.6	1.4	1.2	2.0	1.0	1.9	1.8	1.2	1.9	2.5	2.0	1.3	3.2	1.0	3.3	2.7
RESPONSE: 03 AGE: 13 TEXT: L + W																				
DELTA-P	19.8	3.2	0.0	-3.6#	1.2	-0.8	0.8	12.0#	-2.2#	9.3*	1.6	0.2	-4.4#	15.3#	-0.1	1.6	-2.5	-5.5#	-4.0*	0.8
STD ERR OF DP		1.8	1.7	1.3	2.4	1.0	1.0	2.7	0.6	4.3	3.1	1.6	1.0	4.1	3.5	1.7	3.1	1.7	1.8	3.5
STD ERR OF P	1.0	2.0	1.8	1.3	3.0	1.4	1.5	3.2	1.1	4.5	3.1	2.1	[illegible]	4.4	3.7	1.9	3.1	1.6	1.8	3.8
AGE: 17																				
DELTA-P	8.9	3.1	-1.3	-0.2	-1.0	-1.1	0.9	9.7#	-2.0#	8.8*	7.3#	-0.2	-4.2#	5.4*	1.5	-0.1	-0.6	2.3	-1.4	-5.2#
STD ERR OF DP		2.3	1.2	1.2	1.2	0.8	0.7	2.2	0.4	4.0	2.1	1.2	0.9	2.3	3.5	1.2	1.8	2.0	1.8	1.7
STD ERR OF P	0.8	2.8	1.3	1.3	1.3	1.0	1.2	2.5	0.8	4.5	2.4	1.5	0.8	2.4	3.8	1.5	1.9	1.9	1.9	1.7

EXERCISE: R605

A rectangular field has length L and width W. The total distance around the edges of the field is given by the expression

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 03 AGE: Ad TEXT: L + W																				
DELTA-P	8.7	1.3	-2.5*	0.1	1.3	-1.5*	1.4*	3.6	-1.3#	2.5*	3.5	-1.3	-3.7#	6.5#	0.3	0.7	-2.6	-0.6	-1.8	-2.7
STD ERR OF DP		1.4	1.1	1.1	1.5	0.7	0.7	2.1	0.4	1.1	2.4	1.2	1.1	2.1	2.0	0.9	1.4	2.1	1.9	2.0
STD ERR OF P	0.7	1.5	1.2	1.2	1.9	0.8	1.1	2.0	0.8	1.3	2.7	1.4	1.1	2.1	2.0	1.2	1.6	2.3	2.0	2.1
RESPONSE: 04* AGE: 13 TEXT: 2L + 2W																				
DELTA-P	60.7	-7.4#	0.9	4.2*	1.0	1.1	-1.1	-21.2#	4.1#	-18.6#	-8.0*	0.3	9.2#	-20.5#	-4.0	-0.9	4.2	3.6	5.8*	1.8
STD ERR OF DP		2.6	2.0	2.1	2.6	1.2	1.2	2.5	0.7	5.4	3.8	1.8	1.2	4.3	6.1	2.1	4.3	3.3	2.5	4.5
P-VALUE	60.7	53.3	61.6	64.9	61.7	61.8	59.6	39.5	64.7	42.1	52.7	61.0	69.9	40.2	56.7	59.8	64.9	64.3	66.4	62.5
STD ERR OF P	1.4	3.0	2.1	2.5	3.1	1.9	1.8	2.6	1.6	5.8	3.8	2.1	1.9	4.6	6.7	2.1	4.5	3.2	2.7	4.8
AGE: 17																				
DELTA-P	69.2	-0.4	-0.1	1.4	-1.0	2.6*	-2.2*	-16.7#	3.1#	-4.5	-11.8#	1.5	4.6#	-12.5#	4.5	0.6	2.3	-1.1	-4.6	8.2#
STD ERR OF DP		2.7	2.3	1.6	2.2	1.1	0.9	2.9	0.8	4.5	2.8	1.8	1.5	3.2	4.8	1.8	2.5	3.8	3.4	2.8
P-VALUE	69.2	68.8	69.0	70.5	68.2	71.7	67.0	52.5	72.3	64.7	57.4	70.6	73.7	56.7	73.7	69.7	71.5	68.1	64.6	77.4
STD ERR OF P	1.2	3.1	2.7	1.5	2.6	1.3	1.8	3.2	1.3	5.0	3.2	1.9	1.7	3.1	5.2	2.3	2.6	4.0	3.6	2.7
AGE: Ad																				
DELTA-P	68.2	-1.2	-1.4	2.2	0.0	5.7#	-5.3#	-11.4#	2.6#	-6.1#	-4.2	3.6	7.7#	-12.6#	-2.6	0.4	1.3	4.8	0.2	5.1
STD ERR OF DP		2.0	2.6	2.3	2.8	1.2	1.1	3.9	0.7	2.2	2.8	2.0	2.4	4.1	4.9	1.9	3.4	3.9	3.2	3.2
P-VALUE	68.2	66.9	66.8	70.3	68.2	73.8	62.9	56.7	70.7	62.1	64.0	71.7	75.9	55.5	65.5	68.6	69.4	73.0	68.4	73.2
STD ERR OF P	1.4	1.7	3.0	2.9	3.4	2.2	1.5	4.2	1.5	2.7	3.1	2.2	2.9	4.3	5.0	2.6	3.6	3.9	3.5	3.5
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	3.2	1.1	0.1	-0.0	-1.1	0.5	-0.5	1.6	-0.4	1.4	1.6	-0.1	-0.9#	2.6	0.7	-1.0	-1.7	0.9	0.3	1.2
STD ERR OF DP		1.0	0.9	0.7	0.7	0.3	0.3	1.0	0.2	1.6	1.2	0.7	0.3	1.3	1.6	0.6	0.9	1.1	1.2	1.5
STD ERR OF P	0.5	1.2	1.1	0.8	0.7	0.6	0.5	1.1	0.5	1.8	1.4	0.8	0.5	1.4	1.7	0.6	0.9	1.2	1.3	1.6
AGE: 17																				
DELTA-P	2.4	1.7#	-1.0*	-0.5	0.1	0.2	-0.2	5.4#	-0.8#	-1.0	1.7	-0.1	-0.5	4.0#	-1.2	-1.4#	0.2	1.7	1.5	-2.3#
STD ERR OF DP		0.7	0.4	0.6	0.8	0.5	0.4	1.5	0.3	0.8	1.0	0.7	0.5	1.9	0.7	0.4	0.7	1.3	1.0	0.4
STD ERR OF P	0.4	0.7	0.4	0.8	1.0	0.6	0.5	1.7	0.3	0.7	1.0	0.8	0.6	2.0	0.7	0.4	0.8	1.4	1.0	0.1
AGE: Ad																				
DELTA-P	7.1	0.4	-0.7	-0.1	0.4	-3.2#	3.0#	10.2#	-1.8#	3.7#	0.8	-2.0*	-4.5#	6.0	1.6	-0.9	-0.3	-1.3	3.4	-4.9#
STD ERR OF DP		1.3	1.1	0.8	1.1	0.6	0.6	3.3	0.4	1.4	1.5	0.9	0.9	3.2	2.6	0.7	2.1	2.7	2.3	1.2
STD ERR OF P	0.6	1.5	1.4	0.9	1.2	0.7	1.0	3.6	0.6	1.7	1.7	1.0	0.8	3.4	2.8	0.6	2.3	2.8	2.4	1.1

RH01
OBJ III

$3 + \square = 10$

Replace the box with a number to make the above statement TRUE.

ANSWER ____________________

SCORING GUIDE
RH01
H11001-1

00 = No Response

10 = 7

11 = Correct process with no answer or wrong answer; e.g., 10 - 3

20 = 13; any attempt to add

21 = Other Unacceptable; e.g., 17

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

Report #: RH01

NAEP #: H11001-1

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		03-21
National P-value:		
	RH01	89.80

Timing: (in seconds)

	Stimulus:	4
	Response:	26
RH01	Exercise total:	30

EXERCISE: RM01

3 + (box) = 10 Replace the box with a number to make the above statement TRUE.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.8	0.2	0.2	-0.2	-0.1	0.2	-0.3	1.9#	-0.3#	0.5	-0.3	-0.3	-0.8#	0.9	0.3	0.0	0.1	-0.6*	0.4	-0.8#
STD ERR OF DP		0.3	0.3	0.2	0.3	0.2	0.2	0.6	0.1	0.2	0.5	0.3	0.2	0.7	0.7	0.2	0.5	0.2	0.6	0.2
STD ERR OF P	0.2	0.3	0.4	0.3	0.3	0.3	0.2	0.6	0.2	0.2	0.5	0.3	0.0	0.7	0.8	0.3	0.5	0.2	0.6	0.0
RESPONSE: 10* AGE: 9 TEXT: 7 (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	89.9	-2.5	-1.9	2.5	1.5	-2.8#	3.0#	-11.2#	2.3#	-10.8*	-12.1#	2.0	4.7#	-9.8#	-3.4	0.1	-0.4	1.5	2.1	4.8#
STD ERR OF DP		1.7	2.4	1.6	1.6	0.6	0.6	1.7	0.5	5.0	4.8	1.5	1.2	3.5	2.5	1.5	2.6	1.9	1.8	1.7
P-VALUE	89.9	87.4	88.0	92.4	91.4	87.0	92.9	78.7	92.1	79.1	77.8	91.8	94.6	80.1	86.5	90.0	89.5	91.3	92.0	94.7
STD ERR OF P	1.1	1.7	3.2	1.7	1.6	1.5	1.0	1.7	1.3	5.8	5.4	1.4	0.9	3.7	2.6	2.3	2.8	1.9	1.7	1.6
RESPONSE: 11 AGE: 9 TEXT: Correct process with no answer or wrong answer; e.g., 10 - 3																				
DELTA-P	0.2	-0.2	0.3	-0.2	0.0	0.1	-0.2	-0.2	0.0	-0.2	-0.2	0.1	0.0	-0.2	-0.2	0.1	-0.2	0.3	-0.2	-0.2
STD ERR OF DP		0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.4	0.1	0.1
STD ERR OF P	0.1	0.0	0.4	0.0	0.2	0.2	0.0	0.0	0.2	0.0	0.0	0.3	0.2	0.0	0.0	0.3	0.0	0.4	0.0	0.0
RESPONSE: 20 AGE: 9 TEXT: 13; any attempt to add																				
DELTA-P	1.9	1.6	-0.4	-0.8*	-0.0	0.6	-0.7	4.8#	-0.9#	1.0	4.2	0.3	-1.1#	5.3#	2.8	-0.5	-1.0*	-0.6	-1.1	-1.0
STD ERR OF DP		0.8	0.6	0.4	0.6	0.3	0.3	1.0	0.2	1.0	2.5	0.7	0.4	1.5	1.5	0.3	0.5	0.8	0.7	0.6
STD ERR OF P	0.3	1.0	0.7	0.4	0.7	0.6	0.4	1.2	0.3	1.1	2.7	0.7	0.4	1.7	1.7	0.5	0.4	0.8	0.7	0.6
RESPONSE: 21 AGE: 9 TEXT: Other Unacceptable; e.g., 17																				
DELTA-P	5.2	0.7	0.2	-0.7	-0.1	1.3#	-1.4#	5.5#	-1.1#	2.5	5.9	-1.7*	-1.7*	3.6	-1.4	0.5	1.8	0.7	-2.3*	-2.6*
STD ERR OF DP		0.9	1.3	1.1	1.0	0.5	0.5	1.2	0.3	2.5	3.1	0.8	0.7	2.0	1.4	0.9	2.3	1.6	1.1	1.1
STD ERR OF P	0.7	0.8	1.7	1.3	1.1	0.8	0.9	1.3	0.7	2.5	3.1	0.8	0.7	2.0	1.3	1.3	2.5	1.7	0.9	0.9
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	2.0	0.2	1.7	-0.6	-1.3*	0.5	-0.6	-0.7	0.1	7.0	2.4	-0.4	-1.2	0.2	1.8	-0.2	-0.4	-1.3	1.1	-0.3
STD ERR OF DP		0.8	1.2	0.7	0.7	0.5	0.6	0.7	0.2	6.0	3.6	0.7	0.6	1.4	1.8	0.9	1.0	0.7	1.2	0.8
STD ERR OF P	0.6	0.7	1.7	0.6	0.5	1.0	0.3	0.5	0.7	6.4	4.1	0.5	0.4	1.4	1.8	1.3	0.9	0.4	1.3	0.6

RH02
OBJ II

What is the value of x that satisfies the equation below?

$$3x - 3 = 12$$

ANSWER ______________________

Report #: RH02

NAPP #: N11010-23

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:		13	17
Package-Exercise:		05-24	05-04
National P-value:	RH02	38.91	75.42

Timing: (in seconds)		13	17
	Stimulus:	4	4
	Response:	31	30
RH02	Exercise total:	35	34

SCORING GUIDE
RH02
N11010-23

00 = No Response

10 = 5

20 = 3

21 = 4

22 = 7

23 = 15

24 = Other Unacceptable

25 = 9

39 = I Don't Know.

EXERCISE: RH02

What is the value of x that satisfies this equation? $3x - 3 = 12$

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	3.9	-0.8	0.4	1.3	-1.3	0.2	-0.2	3.2#	-0.4*	-0.1	1.8	0.4	-1.2*	4.7*	-0.0	-1.8#	-1.0	1.4	1.6	-1.2
STD ERR OF DP		0.9	0.9	0.9	0.7	0.5	0.5	1.2	0.2	1.5	1.5	0.6	0.5	2.0	1.6	0.6	1.1	1.3	1.1	0.9
STD ERR OF P	0.5	0.9	1.0	1.2	0.6	0.6	0.7	1.3	0.5	1.5	1.6	0.9	0.6	2.2	1.7	0.7	1.4	1.5	1.2	0.9
AGE: 17																				
DELTA-P	1.9	-0.4	0.7	0.4	-0.8	0.1	-0.1	2.7#	-0.8#	2.8*	0.0	0.5	-1.1#	1.1	1.4	-0.7	0.5	1.7	-0.2	-1.2
STD ERR OF DP		0.5	0.7	0.5	0.5	0.4	0.4	0.9	0.3	1.4	0.8	0.5	0.3	1.1	1.3	0.4	0.7	1.4	0.8	0.7
STD ERR OF P	0.3	0.4	0.9	0.6	0.5	0.6	0.5	1.0	0.3	1.4	0.9	0.6	0.4	1.1	1.4	0.6	0.7	1.4	0.8	0.7
RESPONSE: 10* AGE: 13 TEXT: 5																				
DELTA-P	38.9	-6.6	-10.9#	5.0	11.3#	0.0	-0.0	-19.0#	4.2#	-17.9#	-15.1#	4.2#	8.0#	-23.9#	9.5	1.7	-3.8	1.6	-6.3	11.8*
STD ERR OF DP		4.3	2.6	3.4	2.9	1.1	1.1	3.2	0.7	4.2	3.5	1.3	1.5	3.5	5.2	2.9	4.6	7.2	4.4	5.0
P-VALUE	38.9	32.3	28.0	43.9	50.2	38.9	38.9	19.9	43.1	21.0	23.8	43.2	46.9	15.1	48.4	40.6	35.1	40.5	32.7	50.8
STD ERR OF P	2.0	5.0	2.2	4.4	3.1	2.2	2.3	3.1	2.2	3.7	3.2	2.7	2.7	3.5	5.7	3.9	4.7	7.7	4.1	5.2
AGE: 17																				
DELTA-P	75.4	-5.3	-1.5	1.2	4.4	-0.4	0.4	-29.4#	6.2#	-21.2#	-10.3#	-0.6	10.2#	-15.2#	-1.8	0.6	2.0	-9.2*	3.0	10.9#
STD ERR OF DP		2.8	2.2	2.0	2.3	1.1	0.9	3.0	1.0	3.5	3.0	1.6	1.3	4.5	4.0	1.9	2.8	4.4	2.3	3.2
P-VALUE	75.4	70.2	73.9	76.5	79.8	75.0	75.8	46.0	81.6	54.2	65.1	74.8	85.7	60.2	73.7	76.0	77.4	66.2	78.4	86.2
STD ERR OF P	1.3	3.2	2.5	2.4	2.6	1.7	1.6	3.5	1.1	3.7	2.9	2.0	1.4	4.9	3.8	2.1	3.0	4.9	2.2	3.4
RESPONSE: 20 AGE: 13 TEXT: 3																				
DELTA-P	3.2	2.5#	-0.5	-1.1*	-0.4	0.1	-0.1	2.6	-0.5*	5.1*	2.9	-1.2#	-0.4	2.3	-1.0	0.5	1.2	-1.4	-0.6	-0.9
STD ERR OF DP		0.9	0.7	0.5	0.7	0.4	0.4	1.6	0.2	2.1	1.8	0.5	0.4	2.3	0.8	0.6	1.4	0.4	0.9	0.7
STD ERR OF P	0.4	1.1	0.8	0.6	0.8	0.6	0.5	1.7	0.4	2.1	1.9	0.5	0.6	2.4	0.8	0.8	1.6	0.6	0.9	0.7
AGE: 17																				
DELTA-P	3.9	-0.2	0.4	-0.7	0.5	0.4	-0.3	0.1	-0.1	-0.1	-0.4	-1.0	0.7	-0.4	0.1	-0.4	0.5	-0.6	0.9	0.5
STD ERR OF DP		0.8	0.8	0.6	0.6	0.5	0.4	1.0	0.2	1.2	1.1	0.7	0.5	1.0	1.4	0.6	1.0	1.5	0.9	1.1
STD ERR OF P	0.4	1.0	1.0	0.7	0.7	0.6	0.6	1.0	0.5	1.2	1.0	0.7	0.8	1.1	1.6	0.7	1.0	1.5	1.0	1.2
RESPONSE: 21 AGE: 13 TEXT: 4																				
DELTA-P	3.6	1.3*	-0.2	-0.1	-0.8	0.0	-0.0	3.2*	-0.4	1.9	1.6	0.4	-1.3#	2.5	1.1	-0.5	2.2*	2.0	-3.3#	-1.4
STD ERR OF DP		0.7	0.6	0.7	0.9	0.4	0.4	1.4	0.2	2.1	1.5	0.6	0.5	1.6	1.9	0.7	1.0	2.1	0.5	1.1
STD ERR OF P	0.4	0.7	0.7	0.8	1.1	0.6	0.5	1.5	0.4	2.2	1.4	0.9	0.5	1.6	2.0	0.6	1.0	2.4	0.3	1.1
AGE: 17																				
DELTA-P	2.5	0.8	0.0	0.3	-1.0	0.5	-0.4	3.6#	-1.0#	3.5	1.2	0.7	-2.0#	0.4	1.4	-0.1	-0.9	4.9	-1.2	-1.3
STD ERR OF DP		1.0	0.8	0.7	0.6	0.4	0.4	1.2	0.3	2.0	1.2	0.7	0.4	1.3	2.2	0.6	0.7	2.9	1.0	0.7
STD ERR OF P	0.4	1.1	0.9	0.8	0.6	0.7	0.5	1.4	0.4	2.1	1.3	0.9	0.2	1.3	2.4	0.7	0.6	3.0	1.0	0.7
RESPONSE: 22 AGE: 13 TEXT: 7																				
DELTA-P	0.2	0.0	-0.0	-0.2*	0.3	0.1	-0.1	-0.2*	0.0	0.6	-0.2*	-0.1	0.0	-0.2*	-0.2*	0.3	-0.2*	-0.2*	-0.2*	0.5
STD ERR OF DP		0.2	0.2	0.1	0.3	0.1	0.1	0.1	0.0	0.9	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.6
STD ERR OF P	0.1	0.2	0.2	0.0	0.4	0.2	0.1	0.0	0.1	0.8	0.0	0.1	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.7
AGE: 17																				
DELTA-P	0.2	-0.1	0.4	-0.1	-0.2	-0.2	0.2	-0.1	0.0	0.1	-0.2	-0.1	0.1	-0.2	2.0	-0.2	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.2	0.5	0.2	0.2	0.2	0.1	0.2	0.0	0.2	0.2	0.2	0.2	0.2	1.5	0.2	0.2	0.2	0.2	0.2
STD ERR OF P	0.1	0.1	0.6	0.2	0.1	0.0	0.3	0.1	0.2	0.2	0.0	0.1	0.3	0.0	1.7	0.1	0.0	0.0	0.0	0.0
RESPONSE: 23 AGE: 13 TEXT: 15																				
DELTA-P	6.6	-2.0	1.8	0.3	-0.5	0.6	-0.6	0.6	-0.2	-1.0	4.7*	-1.1	-0.1	2.2	-0.6	0.1	-1.5	-0.4	0.7	-0.0
STD ERR OF DP		1.1	1.1	1.2	1.4	0.7	0.7	1.6	0.3	2.1	1.9	0.8	0.8	1.7	1.6	1.1	1.2	1.4	2.2	1.7
STD ERR OF P	0.7	1.1	1.3	1.5	1.7	0.9	1.0	1.8	0.8	2.0	2.1	1.0	0.9	1.6	1.6	1.4	1.3	1.5	2.5	1.7

EXERCISE: RM02

What is the value of x that satisfies this equation? 3x - 3 = 12

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	SIZE-AND-TYPE OF COMMUNITY EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY MAIN BIG CITY	SIZE-AND-TYPE OF COMMUNITY URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY HIGH METRO
RESPONSE: 23 AGE: 17	TEXT: 15																			
DELTA-P	2.2	0.2	-0.5	-0.0	0.3	-0.3	0.3	2.2#	-0.5#	-0.6	-0.3	1.8*	-1.2#	1.4	1.0	0.7	-1.3*	0.3	-0.9	-1.7#
STD ERR OF DP		0.6	0.6	0.5	0.9	0.3	0.3	0.9	0.2	0.7	0.8	0.9	0.5	1.1	1.2	0.6	0.5	1.3	0.8	0.5
STD ERR OF P	0.4	0.6	0.5	0.5	1.2	0.5	0.5	1.0	0.4	0.7	0.8	1.2	0.3	1.1	1.2	0.9	0.4	1.3	0.7	0.4
RESPONSE: 24 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	15.1	2.9	1.6	-1.7	-2.3	0.3	-0.3	9.6#	-1.9#	11.2#	6.0	-2.3*	-2.3#	4.1	-3.1	1.4	1.0	-3.6	4.0	-6.3#
STD ERR OF DP		2.1	1.5	1.4	1.5	0.8	0.8	2.7	0.5	3.9	3.3	1.1	0.9	3.1	2.5	1.2	2.1	2.3	2.5	2.5
STD ERR OF P	0.9	2.4	1.6	1.7	1.6	1.3	1.2	2.7	1.0	3.9	3.4	1.3	1.3	3.2	2.7	1.6	2.3	2.4	2.6	2.5
AGE: 17																				
DELTA-P	5.7	3.4#	0.4	-1.4	-1.6	0.9	-0.8	10.1#	-1.7#	3.4	3.7*	0.4	-2.4#	5.9#	1.1	-0.7	0.3	1.9	-1.1	-3.4#
STD ERR OF DP		1.2	1.0	0.9	0.9	0.6	0.5	1.8	0.4	2.3	1.7	0.9	0.6	2.4	2.3	0.8	1.4	2.2	2.0	0.9
STD ERR OF P	0.6	1.4	1.1	1.0	1.0	0.8	0.7	2.1	0.5	2.4	1.8	1.0	0.7	2.5	2.4	0.9	1.5	2.2	2.0	0.9
RESPONSE: 25 AGE: 13	TEXT: 9																			
DELTA-P	2.6	2.6#	0.3	-1.2*	-1.2	-0.2	0.2	3.7#	-0.6#	5.0*	0.7	-0.4	-0.9#	1.6	1.2	0.3	-0.0	-0.1	-0.4	-2.1#
STD ERR OF DP		0.8	0.6	0.5	0.6	0.3	0.3	1.1	0.2	2.4	1.3	0.5	0.3	1.3	1.4	0.9	1.2	1.1	0.9	0.6
STD ERR OF P	0.4	1.0	0.7	0.5	0.7	0.5	0.5	1.1	0.4	2.4	1.3	0.5	0.4	1.3	1.4	0.9	1.3	1.1	1.0	0.6
AGE: 17																				
DELTA-P	1.1	0.3	-0.2	0.4	-0.5	-0.1	0.1	2.3#	-0.4#	1.1	0.6	-0.3	-0.4*	-0.3	-0.5	0.3	-0.1	1.5	0.1	-1.1#
STD ERR OF DP		0.5	0.4	0.4	0.3	0.2	0.2	0.8	0.1	0.7	0.8	0.3	0.2	0.7	0.5	0.3	0.6	1.0	0.6	0.2
STD ERR OF P	0.2	0.6	0.4	0.4	0.3	0.3	0.3	0.9	0.2	0.8	0.9	0.3	0.2	0.8	0.5	0.4	0.6	1.0	0.6	0.0
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	25.8	0.1	7.5#	-2.4	-5.2#	-1.2	1.2	-3.7	-0.2	-4.9	-2.4	0.0	-1.8	3.7	-7.0*	-2.0	2.2	0.7	4.6	-0.4
STD ERR OF DP		2.5	2.3	1.9	2.1	0.9	0.9	2.5	0.5	2.9	3.2	1.3	1.1	3.6	3.3	2.1	3.6	4.2	3.6	3.9
STD ERR OF P	1.3	2.8	2.7	2.3	2.3	1.6	1.6	2.5	1.5	3.0	3.3	1.8	1.9	3.7	3.5	2.6	3.7	4.2	3.9	4.2
AGE: 17																				
DELTA-P	7.0	1.3	0.3	-0.1	-1.3	-0.9	0.8	8.6#	-1.7#	11.1#	5.7#	-1.4	-4.0#	7.2#	-4.7#	0.5	-0.7	-0.2	-0.4	-2.3
STD ERR OF DP		1.3	1.2	1.1	1.2	0.6	0.5	2.2	0.4	2.1	2.1	1.0	0.5	2.7	1.5	1.0	1.9	2.3	1.8	1.8
STD ERR OF P	0.7	1.4	1.3	1.3	1.4	0.9	0.9	2.5	0.6	2.2	2.3	1.1	0.8	2.9	1.8	1.0	2.0	2.5	1.9	1.9

RH03
OBJ II

What value of x makes the following TRUE?

$x - 3 = 7$

ANSWER ____________________

SCORING GUIDE
RH03
M11026-1234

00 = No Response

10 = 10

20 = 4

21 = Other Unacceptable

39 = I Don't Know.

Report #: RH03

NAEP #: M11026-1234

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		05-25	01-21	11-11	03-24
National P-value:	RH03	49.15	84.62	93.88	80.71

Timing: (in seconds)

		9	13	17	Adult
	Stimulus:	3	3	3	3
	Response:	26	27	27	*
RH03	Exercise total:	29	30	30	*

*Time not limited by paced tape.

EXERCISE: RH03

What value of x makes the following TRUE? x - 3 = 7

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad	TEXT: 4																			
DELTA-P	6.1	1.6	-0.9	-0.4	0.1	-1.0	0.9	5.5*	-0.7*	1.4	4.7#	-1.4	-3.4#	1.4	0.4	0.5	1.0	-0.0	0.5	-3.7#
STD ERR OF DP		1.2	0.9	0.8	0.9	0.7	0.6	2.5	0.3	1.0	1.7	0.8	0.6	1.9	1.4	0.7	1.8	2.0	2.0	1.0
STD ERR OF P	0.5	1.4	1.0	0.9	1.0	0.8	0.8	2.8	0.5	1.0	1.9	1.0	0.7	1.9	1.5	0.8	1.9	2.1	2.2	1.0
RESPONSE: 21 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	15.1	4.6*	4.0	-4.1*	-4.5#	0.7	-0.7	11.0#	-2.3#	9.5#	-1.4	-0.5	-0.2	3.2	6.6	3.5	-2.3	-3.2	-4.9	-6.0#
STD ERR OF DP		2.0	2.6	1.8	1.6	0.9	0.8	2.6	0.6	3.6	4.3	1.6	1.0	3.0	3.9	1.8	2.8	1.9	2.7	2.0
STD ERR OF P	1.2	2.2	3.4	1.9	1.4	1.4	1.6	2.6	1.6	4.2	4.2	2.4	1.7	3.0	4.1	2.6	3.0	1.6	2.6	1.7
AGE: 13																				
DELTA-P	4.4	2.6#	0.5	-1.5	-0.7	1.3#	-1.3#	6.4#	-1.8#	8.2*	-1.1	-0.1	-2.7#	4.5	2.1	-1.0	2.1	0.5	-0.6	-3.2#
STD ERR OF DP		0.9	1.4	0.8	0.8	0.5	0.5	1.7	0.5	3.6	1.2	0.8	0.6	2.4	2.8	0.7	1.9	1.3	1.2	0.7
STD ERR OF P	0.6	0.9	1.8	1.0	0.8	0.9	0.5	1.9	0.4	3.9	1.1	1.0	0.4	2.4	3.1	0.7	2.0	1.3	1.4	0.5
AGE: 17																				
DELTA-P	1.4	-0.9#	0.4	0.0	0.3	0.4	-0.4	1.5*	-0.3*	0.0	0.6	-0.4	-0.2	-0.1	0.6	-0.8#	-0.8*	2.0	-0.6	2.2
STD ERR OF DP		0.3	0.4	0.5	0.4	0.3	0.3	0.7	0.2	0.9	0.5	0.4	0.3	0.6	0.8	0.3	0.4	1.4	0.5	1.5
STD ERR OF P	0.3	0.2	0.5	0.7	0.5	0.5	0.3	0.7	0.3	1.0	0.5	0.3	0.5	0.6	0.8	0.2	0.3	1.5	0.5	1.7
AGE: Ad																				
DELTA-P	2.4	-0.8	-0.3	1.4	-0.6	0.4	-0.3	3.7	-0.7#	0.5	1.0	-0.7	-0.3	3.2	-0.9	-0.1	-0.4	-0.9	-1.0	0.2
STD ERR OF DP		0.7	0.7	0.7	0.6	0.5	0.4	2.1	0.3	0.8	1.0	0.6	1.0	2.0	1.0	0.5	1.1	1.0	0.8	1.7
STD ERR OF P	0.4	0.7	0.8	0.9	0.6	0.7	0.5	2.1	0.4	1.0	1.0	0.7	1.1	2.0	1.1	0.6	1.1	1.0	0.8	1.9
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	20.6	2.4	-0.0	-2.9	0.6	-1.4	1.4	6.4#	-2.0#	0.3	1.3	-1.6	-6.0#	7.8	-1.6	-1.7	-1.3	5.9	[illegible]	-6.1*
STD ERR OF DP		2.2	2.1	2.2	2.9	0.8	0.8	2.6	0.7	3.2	4.7	1.6	1.0	4.6	2.9	1.7	3.1	3.7	3.4	2.9
STD ERR OF P	1.3	2.4	2.3	2.5	3.6	1.6	1.5	3.1	1.3	3.3	5.0	2.3	1.3	5.0	2.9	1.8	3.0	4.2	3.8	3.4
AGE: 13																				
DELTA-P	3.1	1.7#	2.3#	-2.2#	-0.9	-0.2	0.2	4.3*	-1.1#	0.2	1.5	-0.5	-1.6#	5.1*	1.4	-0.5	1.1	-0.3	-0.6	-2.4#
STD ERR OF DP		0.6	0.8	0.4	0.5	0.3	0.3	1.9	0.4	1.3	1.9	0.6	0.4	2.1	1.4	0.5	1.0	0.7	0.7	0.6
STD ERR OF P	0.3	0.6	1.0	0.3	0.5	0.4	0.5	2.0	0.4	1.3	2.0	0.5	0.4	2.1	1.5	0.6	1.0	0.8	0.7	0.5
AGE: 17																				
DELTA-P	2.0	0.9	1.4*	-1.2#	-0.8*	0.3	-0.4	3.4#	-0.8#	3.8#	2.3#	-0.6	-1.2#	4.8*	0.6	-0.7	-0.4	0.0	-1.6#	0.3
STD ERR OF DP		0.6	0.7	0.3	0.3	0.2	0.2	1.2	0.3	1.0	0.7	0.3	0.3	2.0	0.8	0.4	0.7	0.9	0.4	0.6
STD ERR OF P	0.3	0.7	0.9	0.3	0.2	0.4	0.4	1.4	0.2	1.1	0.9	0.5	0.3	2.2	0.8	0.4	0.7	0.9	0.3	0.6
AGE: Ad																				
DELTA-P	10.1	2.2	-1.5	-0.7	0.5	-3.0#	2.8#	10.7#	-1.9#	7.2#	1.0	-2.3*	-7.1#	7.8#	-0.1	0.9	-2.6	-5.5#	3.3	-5.2#
STD ERR OF DP		2.3	1.7	1.6	1.5	0.8	0.8	3.8	0.5	1.9	1.4	1.1	1.1	2.9	2.4	1.0	2.1	2.0	2.8	1.9
STD ERR OF P	1.0	2.7	1.9	1.9	1.5	1.2	1.4	4.3	0.9	2.5	1.7	1.2	0.8	3.2	2.6	1.5	2.3	1.9	3.1	1.9

HH04
OBJ III

Given the equation, $2x + 3y = 12$, complete the table below.

x	-3		0
y		4	

Report #: HH04

NAEP #: H12003-23

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:		13	17
Package-Exercise:		09-17	10-02
National P-value:			
	HH04	1.01	23.52
Timing: (in seconds)			
	Stimulus:	7	6
	Response:	61	61
HH04	Exercise total:	68	67

SCORING GUIDE
HH04
H12003-23

00 = No Response

10 = 6, 0, 4

20 = 0, 4 correct but not 6

21 = 6 correct but not 0 and 4

22 = 6, 0 correct but not 4

23 = 6, 4 correct but not 0

24 = Other Unacceptable

25 = 4 only

26 = 0 only

39 = I Don't Know.

EXERCISE: RN04

Given the equation $2x + 3y = 12$, complete the table: $x = -3, y = ?$; $x = ?, y = 4$; $x = 0, y = ?$

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	SIZE-AND-TYPE OF COMMUNITY EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	19.9	-4.0*	2.7	0.6	0.3	1.1	-1.2	-0.3	-0.5	0.4	-1.5	3.1*	-2.5*	9.1*	9.8*	-5.8*	-2.0	5.8	2.4	-2.9
STD ERR OF DP		1.8	2.4	1.5	2.0	1.0	1.1	2.5	0.5	3.0	2.8	1.5	1.2	4.4	2.0	1.6	2.0	3.4	3.3	2.7
STD ERR OF P	1.1	2.0	3.0	1.4	2.3	1.7	1.5	2.8	1.2	3.2	3.2	1.9	1.4	4.4	2.0	1.8	2.1	3.4	3.6	2.8
AGE: 17																				
DELTA-P	14.0	0.2	-0.4	-0.1	0.3	0.0	-0.0	2.9	-0.6	0.3	0.6	1.8	-3.5*	2.6	-1.9	-1.9	2.0	9.3*	1.4	-6.3*
STD ERR OF DP		1.7	1.5	1.3	1.6	0.8	0.7	2.7	0.5	2.8	2.0	1.0	0.9	3.1	4.0	1.1	2.6	4.1	2.2	2.3
STD ERR OF P	0.9	2.0	1.7	1.4	1.9	1.3	1.1	2.7	1.1	2.7	2.4	1.4	1.1	3.2	4.2	1.3	2.9	4.1	2.3	2.1
RESPONSE: 10* AGE: 13	TEXT: 6, 0, 4																			
DELTA-P	1.0	-0.4	0.0	-0.8*	1.1*	-0.0	0.0	-1.0*	0.2*	-1.0*	-1.0*	-0.2	0.9*	1.6	-1.0*	-0.2	1.0	-0.9*	-0.3	0.8
STD ERR OF DP		0.4	0.5	0.3	0.5	0.3	0.3	0.3	0.1	0.3	0.3	0.3	0.3	2.3	0.3	0.3	0.9	0.3	0.5	0.8
P-VALUE	1.0	0.7	1.1	0.3	2.1	1.0	1.0	-0.0	1.2	-0.0	-0.0	0.8	1.9	2.6	-0.0	0.6	2.0	0.1	0.7	1.8
STD ERR OF P	0.2	0.4	0.7	0.2	0.6	0.4	0.3	0.0	0.3	0.0	[illegible]	0.3	0.5	2.5	0.0	0.3	0.9	0.1	0.5	0.9
AGE: 17																				
DELTA-P	23.5	-5.0*	-4.9*	6.3*	2.0	3.3*	-3.0*	-15.6*	3.7*	-14.8*	-11.6*	-4.1*	11.2*	-12.0*	-9.4*	-0.2	2.4	-4.2	1.6	14.8*
STD ERR OF DP		1.8	2.1	2.6	2.2	1.3	1.2	2.4	0.6	2.6	2.3	1.7	1.4	3.7	3.4	1.8	3.1	4.4	3.1	5.4
P-VALUE	23.5	18.5	18.6	29.8	25.6	26.8	20.5	7.9	27.3	8.7	12.0	19.4	34.7	11.6	14.2	23.3	25.9	19.4	25.1	38.4
STD ERR OF P	1.3	1.6	2.3	3.5	2.4	2.0	1.6	2.2	1.6	2.8	2.4	1.9	1.9	3.8	3.2	2.1	3.2	4.4	3.2	5.8
RESPONSE: 20 AGE: 13	TEXT: 0, 4 correct but not 6																			
DELTA-P	0.7	-0.5*	-0.1	0.4	0.1	0.3	-0.3	-0.4	0.1*	-0.4	-0.7*	-0.1	0.5	-0.7*	-0.5*	0.0	-0.1	-0.7*	0.3	1.0
STD ERR OF DP		0.2	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.2	0.6	0.7
STD ERR OF P	0.2	0.1	0.4	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.0	0.3	0.4	0.0	0.1	0.3	0.4	0.0	0.7	0.8
AGE: 17																				
DELTA-P	6.8	-0.2	0.6	-0.4	0.1	0.1	-0.1	-3.8*	0.4	-0.4	-5.0*	-0.6	2.3*	-1.7	-3.3*	1.1	0.8	-1.0	-1.3	2.1
STD ERR OF DP		0.9	1.1	0.9	1.4	0.7	0.7	1.4	0.4	1.9	0.8	0.9	0.8	1.9	1.3	1.0	1.5	3.7	1.3	1.8
STD ERR OF P	0.7	0.8	1.3	1.0	1.8	0.8	1.0	1.6	0.7	1.8	0.8	1.2	0.9	2.2	1.2	1.1	1.5	3.9	1.5	1.8
RESPONSE: 21 AGE: 13	TEXT: 6 correct but not 0 and 4																			
DELTA-P	1.3	0.7	-0.9*	0.7	-0.5	0.2	-0.2	-0.1	-0.0	-1.3*	-0.6	0.4	0.2	-1.0*	0.6	0.1	0.2	0.4	-0.4	-0.4
STD ERR OF DP		0.5	0.3	0.5	0.3	0.3	0.3	0.6	0.1	0.3	0.6	0.5	0.3	0.4	1.3	0.4	0.8	1.0	0.6	0.6
STD ERR OF P	0.3	0.7	0.3	0.6	0.3	0.4	0.3	0.6	0.3	0.0	0.5	0.6	0.4	0.4	1.4	0.4	0.9	1.1	0.5	0.6
AGE: 17																				
DELTA-P	2.0	1.8	-1.2*	-0.7	0.4	0.0	-0.0	-0.5	-0.0	-0.6	-1.1*	-0.0	0.7	0.3	0.0	0.6	-0.6	-1.1	-0.5	0.3
STD ERR OF DP		0.9	0.4	0.5	0.6	0.4	0.3	0.6	0.2	0.9	0.5	0.5	0.5	1.0	1.0	0.5	0.7	0.7	0.9	1.6
STD ERR OF P	0.4	1.2	0.2	0.6	0.7	0.6	0.4	0.6	0.4	0.8	0.5	0.5	0.7	1.0	1.0	0.7	0.7	0.7	1.0	1.7
RESPONSE: 22 AGE: 13	TEXT: 6, 0 correct but not 4																			
DELTA-P	0.0	0.1	-0.0	-0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0	0.2	0.1	-0.0	-0.0
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.0	0.0
AGE: 17																				
DELTA-P	1.1	0.1	-0.3	-0.5	0.8	0.0	0.0	0.0	0.1	0.2	-0.6	0.0	0.0	-0.2	-0.8	-0.2	0.1	0.7	-0.2	1.1
STD ERR OF DP		0.4	0.4	0.3	0.7	0.2	0.2	0.6	0.1	0.9	0.5	0.4	0.2	0.5	0.4	0.3	0.6	0.8	0.6	0.8
STD ERR OF P	0.3	0.4	0.3	0.3	0.9	0.3	0.3	0.7	0.3	1.0	0.4	0.4	0.3	0.4	0.3	0.4	0.7	0.9	0.6	0.9
RESPONSE: 23 AGE: 13	TEXT: 6,4 correct but not 0																			
DELTA-P	0.1	-0.1	-0.1	0.2	-0.1	0.1	-0.1	-0.1	0.0*	-0.1	-0.1	0.1	-0.0	-0.1	0.5	-0.0	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0

EXERCISE: RH04

Given the equation 2x + 3y = 12, complete the table: x = -3, y = ?; x = ?, y = 4; x = 0, y = ?

	NATION	REGION SOUTHEAST	WEST	CENTRAL	NORTHEAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 23 AGE: 17 TEXT: 6,4 correct but not 0																				
DELTA-P	1.0	-0.1	0.1	-0.0	0.0	-0.2	0.2	-0.8*	0.2*	-1.1*	-0.5	-0.1	0.5	-0.7*	-0.8*	-0.0	1.5*	-0.7	-1.0*	1.5
STD ERR OF DP		0.3	0.4	0.4	0.4	0.2	0.2	0.3	0.1	0.2	0.4	0.3	0.3	0.4	0.3	0.3	0.7	0.4	0.2	0.9
STD ERR OF P	0.2	0.3	0.4	0.5	0.4	0.2	0.3	0.2	0.3	0.0	0.4	0.4	0.4	0.3	0.2	0.3	0.4	0.3	0.1	1.0
RESPONSE: 24 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	53.5	0.8	-2.7	0.7	1.4	-0.4	0.4	3.0	-0.2	4.6	-1.9	0.0	-0.1	-6.5	-3.4	4.6*	0.4	-5.3	-4.4	2.8
STD ERR OF DP		3.8	2.8	2.4	2.6	1.4	1.5	3.6	0.6	4.5	3.3	1.9	1.6	7.5	3.7	2.0	3.4	3.4	3.1	4.1
STD ERR OF P	1.7	4.7	3.3	2.5	2.7	2.1	2.3	4.1	1.7	5.2	3.8	2.4	2.0	8.0	4.5	2.7	3.4	3.2	3.4	4.2
AGE: 17																				
DELTA-P	35.6	7.6*	3.1	-3.3	-5.8*	-1.3	1.2	15.3*	-3.4*	13.9*	7.4*	2.3	-6.5*	4.0	18.7*	-0.2	-2.8	-2.7	1.2	-12.8*
STD ERR OF DP		2.2	2.7	2.2	2.0	1.1	1.0	3.6	0.8	4.2	3.0	1.7	1.4	5.1	5.0	1.9	2.3	2.9	3.2	3.6
STD ERR OF P	1.4	2.4	3.2	2.6	2.2	1.9	1.5	4.0	1.4	4.3	3.4	2.3	1.7	5.7	4.9	2.0	2.2	2.8	3.7	4.0
RESPONSE: 25 AGE: 13 TEXT: 4 only																				
DELTA-P	1.3	0.2	-0.5	0.2	0.2	0.5	-0.5	-0.5	0.1	0.4	0.7	0.0	-0.3	-0.4	-0.5	0.1	-0.6	-1.0*	0.4	1.3
STD ERR OF DP		0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.1	1.1	1.3	0.4	0.3	0.6	0.5	0.3	0.5	0.4	0.8	0.9
STD ERR OF P	0.2	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.2	1.1	1.3	0.4	0.4	0.6	0.5	0.4	0.4	0.3	0.8	1.0
AGE: 17																				
DELTA-P	2.2	-0.6	-0.3	-0.2	1.0	0.5	-0.5	-0.7	0.2	-0.8	1.6*	-0.9	0.4	2.6*	0.2	0.3	-0.5	0.4	-1.7*	-0.2
STD ERR OF DP		0.4	0.5	0.5	0.6	0.3	0.3	0.7	0.1	0.7	0.6	0.4	0.4	1.2	1.3	0.4	0.7	1.2	0.4	0.9
STD ERR OF P	0.3	0.4	0.6	0.7	0.7	0.5	0.4	0.8	0.3	0.7	0.7	0.4	0.6	1.2	1.4	0.6	0.7	1.3	0.3	0.9
RESPONSE: 26 AGE: 13 TEXT: 0 only																				
DELTA-P	0.9	0.1	-0.4	0.3	0.0	-0.0	0.0	0.3	0.0	0.0	-0.1	0.0	0.3	-0.4	-0.9*	0.5	0.4	0.7	-0.7*	-0.6
STD ERR OF DP		0.4	0.3	0.4	0.5	0.2	0.2	0.5	0.1	0.6	0.5	0.3	0.2	0.5	0.2	0.4	0.9	0.9	0.3	0.3
STD ERR OF P	0.2	0.5	0.2	0.5	0.6	0.3	0.4	0.5	0.3	0.6	0.5	0.4	0.4	0.5	0.0	0.6	1.0	0.9	0.2	0.3
AGE: 17																				
DELTA-P	1.9	-0.4	-0.1	1.1*	-0.8	-0.1	0.0	0.1	-0.1	-1.1*	0.6	1.0	-0.6	0.9	0.4	-0.7*	0.9	1.2	-0.3	-0.3
STD ERR OF DP		0.5	0.5	0.5	0.4	0.3	0.3	1.0	0.2	0.3	0.9	0.6	0.3	1.6	0.7	0.3	0.8	1.0	0.9	0.8
STD ERR OF P	0.3	0.5	0.6	0.7	0.4	0.4	0.4	1.0	0.3	0.1	1.0	0.8	0.4	1.7	0.7	0.2	0.9	1.0	1.0	0.8
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	21.3	3.0	2.0	-2.3	-2.5	-1.7	1.9	-1.1	0.2	-2.5	5.1	-3.3*	1.1	-1.5	-4.5	0.7	0.6	0.8	2.9	-1.9
STD ERR OF DP		2.9	2.7	1.9	1.9	1.0	1.1	2.4	0.4	3.2	3.3	1.2	1.1	6.9	3.8	1.7	3.3	3.2	3.0	2.9
STD ERR OF P	1.4	3.5	3.3	1.9	1.8	1.8	1.7	2.5	1.5	3.2	3.3	1.7	2.0	7.1	4.3	2.4	3.6	3.1	3.3	3.0
AGE: 17																				
DELTA-P	11.8	-3.5*	3.5	-2.2	1.9	-2.4*	2.2*	2.9	-0.5	4.3	8.5*	0.4	-4.6*	4.2	-3.2	1.3	-3.4*	-2.0	0.9	-0.3
STD ERR OF DP		1.3	2.0	2.0	2.3	0.9	0.8	2.9	0.6	2.3	2.3	1.4	1.1	3.1	2.8	1.7	1.8	3.8	3.0	3.1
STD ERR OF P	1.2	0.7	2.3	2.4	2.9	1.1	1.7	3.2	1.3	2.9	2.7	2.0	1.9	3.2	2.8	2.3	1.4	3.9	3.6	3.1

RH05
OBJ II

If x is less than 4, then $x + 7$ MUST be

○ less than 7.

● less than 11.

○ greater than 7.

○ greater than 11.

○ I don't know.

Report #: RH05

NAEP #: H12025-234

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		07-33	07-07	02-30
National P-value:				
	RH05	50.10	70.00	55.86
Timing: (in seconds)				
	Stimulus:	12	11	16
	Response:	31	31	*
	I don't know:	5	5	*
	Pause:	6	6	*
RH05	Exercise total:	54	53	*

*Time not limited by paced tape.

EXERCISE: RM05

If x is less than 4, then x + 7 MUST be

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	3.0	-2.2	3.9	-0.3	-1.5	0.2	-0.2	-0.4	0.2	0.7	-1.0	-0.1	-0.1	-2.0	3.6	-2.2	-0.5	2.1	2.9	-1.2
STD ERR OF DP		1.2	2.9	2.1	1.2	0.3	0.3	1.6	0.3	1.2	0.8	0.5	0.5	1.3	5.5	1.2	2.2	4.0	3.7	1.7
STD ERR OF P	1.1	0.5	3.7	2.6	0.6	1.3	1.1	1.8	1.3	2.1	1.3	1.3	1.3	0.7	6.1	0.4	2.3	4.4	4.2	1.4
AGE: 17																				
DELTA-P	0.6	-0.1	-0.4	-0.2	0.7	0.4	-0.4	0.6	-0.1	-0.0	-0.5*	0.3	-0.0	-0.3	-0.6*	-0.4	-0.0	0.5	0.6	0.7
STD ERR OF DP		0.3	0.3	0.3	0.6	0.3	0.2	0.7	0.1	0.5	0.2	0.3	0.2	0.3	0.2	0.3	0.5	0.7	0.7	0.7
STD ERR OF P	0.2	0.3	0.1	0.3	0.8	0.5	0.1	0.7	0.3	0.5	0.1	0.5	0.3	0.3	0.0	0.2	0.5	0.7	0.9	0.9
AGE: Ad																				
DELTA-P	0.6	1.4	-0.4	-0.5	-0.2	0.4	-0.4	-0.6	0.1*	-0.5	-0.6	0.1	0.9	-0.6	2.7	-0.4	-0.6	-0.6	1.2	-0.2
STD ERR OF DP		1.1	0.4	0.3	0.4	0.3	0.3	0.3	0.1	0.2	0.3	0.5	0.6	0.3	2.3	0.3	0.1	0.3	1.7	0.5
STD ERR OF P	0.3	1.4	0.2	0.2	0.3	0.6	0.2	0.0	0.4	0.2	0.0	0.7	0.8	0.0	2.5	0.2	0.0	0.0	1.9	0.4
RESPONSE: 01 AGE: 13 TEXT: less than 7.																				
DELTA-P	11.3	1.5	0.5	-1.1	0.4	0.8	-0.8	7.0*	-1.6*	1.1	2.0	0.8	-2.6*	4.5*	0.7	2.3	-0.9	0.1	-2.7	-5.0*
STD ERR OF DP		1.1	1.2	1.5	1.2	0.6	0.6	2.0	0.4	2.6	2.5	0.9	0.7	2.2	2.8	1.2	1.3	2.1	1.8	1.7
STD ERR OF P	0.8	1.1	1.4	1.9	1.4	1.0	0.9	2.0	0.9	2.7	2.4	1.2	1.0	2.2	3.0	1.5	1.3	2.1	2.0	1.7
AGE: 17																				
DELTA-P	7.4	0.8	0.2	-1.2	0.4	-2.3*	2.0*	7.0*	-1.7*	4.8*	7.4*	-0.6	-3.3*	4.3*	-1.1	1.8	-3.0*	3.3	-3.0*	-2.5
STD ERR OF DP		1.1	0.9	1.0	1.2	0.6	0.5	2.1	0.4	2.1	2.1	1.1	0.7	2.1	1.3	1.0	0.9	2.6	1.2	1.7
STD ERR OF P	0.6	1.2	1.0	1.2	1.6	0.7	0.9	2.2	0.7	2.2	2.4	1.1	0.8	2.2	1.1	1.3	0.9	2.7	1.3	1.9
AGE: Ad																				
DELTA-P	7.3	1.0	0.0	-0.1	-0.9	-0.3	0.3	6.8*	-1.2*	3.5*	0.8	-1.2	-2.3*	1.5	-0.9	-0.2	1.8	2.1*	0.5	-3.2*
STD ERR OF DP		0.9	1.0	0.9	1.0	0.6	0.6	2.5	0.3	1.1	1.5	0.9	0.8	2.2	1.3	0.8	2.1	2.4	1.6	1.5
STD ERR OF P	0.6	1.0	1.2	1.0	1.1	0.9	0.7	2.7	0.5	1.3	1.5	1.0	1.0	2.3	1.2	0.9	2.2	2.6	1.7	1.5
RESPONSE: 02* AGE: 13 TEXT: less than 11.																				
DELTA-P	50.1	-0.9	0.7	3.1	-3.2	0.0	-0.0	-17.7*	3.5*	-13.3*	-7.8*	-1.0	9.3*	-14.2*	-2.9	-0.5	4.0	-5.9	-2.2	15.4*
STD ERR OF DP		2.2	3.0	2.3	2.6	1.1	1.1	3.6	0.8	3.6	2.9	1.5	1.2	3.5	3.9	2.1	2.7	4.5	3.7	3.5
P-VALUE	50.1	49.2	50.8	53.2	47.0	50.1	50.1	32.5	53.6	36.8	42.3	49.1	59.4	35.9	47.2	49.6	54.1	44.2	47.9	65.5
STD ERR OF P	1.5	2.2	3.6	2.5	3.2	1.9	1.8	3.9	1.5	4.1	3.1	2.0	1.9	3.6	4.4	2.3	2.9	5.1	3.9	3.6
AGE: 17																				
DELTA-P	70.0	-3.6	-4.1*	2.9	3.7*	0.6	-0.5	-24.5*	5.3*	-11.0*	-11.0*	-3.0	8.3*	-15.0*	-1.5	-0.3	2.2	-2.1	4.9	6.9
STD ERR OF DP		2.4	2.0	2.4	1.7	1.0	0.9	3.4	0.8	3.3	2.9	1.6	1.1	5.5	4.3	1.5	2.9	4.6	2.7	4.0
P-VALUE	70.0	66.4	65.9	72.9	73.7	70.6	69.5	45.5	75.3	59.1	59.1	67.0	78.3	55.0	68.5	69.3	72.2	67.9	74.9	76.9
STD ERR OF P	1.2	2.7	2.3	3.1	1.6	1.6	1.5	3.5	1.3	3.5	2.9	2.2	1.6	5.8	4.8	1.7	3.2	4.7	2.7	4.1
AGE: Ad																				
DELTA-P	55.9	-4.8	1.1	-0.4	3.5	6.9*	-6.4*	-16.6*	3.2*	-12.4*	-7.2*	3.6	15.3*	-14.5*	-6.7	-0.2	0.9	7.5	-3.9	12.5*
STD ERR OF DP		2.8	2.1	2.4	2.0	1.6	1.5	4.6	0.8	2.5	2.9	2.3	2.4	3.8	4.6	1.6	4.3	5.5	4.1	2.4
P-VALUE	55.9	51.1	57.0	55.4	59.4	62.7	49.5	39.3	59.1	43.5	48.7	59.5	71.2	41.4	49.1	55.6	56.7	63.4	52.0	68.4
STD ERR OF P	1.4	3.2	2.3	3.0	2.1	2.1	2.0	5.0	1.4	2.9	3.0	2.6	2.5	3.8	4.6	2.2	4.8	5.5	4.3	2.3
RESPONSE: 03 AGE: 13 TEXT: greater than 7																				
DELTA-P	26.7	2.0	-2.7	-1.4	2.3	-1.3	1.3	0.7	-0.1	6.0	6.6*	-0.3	-2.5*	0.7	-1.0	1.2	-0.8	2.4	1.0	-4.9
STD ERR OF DP		1.7	1.9	1.5	1.4	1.1	1.1	2.4	0.5	3.5	3.1	1.3	1.1	2.7	2.3	1.5	1.9	3.8	2.6	3.1
STD ERR OF P	0.9	1.8	2.3	1.7	1.5	1.5	1.3	2.6	1.0	3.6	3.3	1.5	1.5	2.7	2.3	1.7	1.9	4.1	2.9	3.2
AGE: 17																				
DELTA-P	17.7	-0.2	3.6	0.3	-3.6*	1.5	-1.3	10.2*	-2.2*	3.0	-1.4	3.2*	-2.6*	3.7	3.4	-1.5	2.6	-1.0	-1.5	-2.3
STD ERR OF DP		1.4	2.1	2.0	1.3	1.0	0.8	2.6	0.6	2.8	2.1	1.3	1.0	3.3	4.0	1.5	2.7	2.5	2.4	3.5
STD ERR OF P	1.0	1.3	2.6	2.5	1.1	1.6	1.1	2.8	1.1	3.1	2.2	1.8	1.3	3.5	4.4	1.6	3.0	2.6	2.4	3.6

EXERCISE: RN05

If x is less than 4, then x + 7 MUST be

	NATION	REGION SOUTHEAST	WEST	CENTRAL	NORTHEAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 03 AGE: Ad TEXT: greater than 7.																				
DELTA-P	14.6	-0.5	1.9	0.9	-2.7	-2.5#	2.3#	1.8	-0.7	1.0	4.8	1.4	-5.9#	2.6	0.9	-1.4	0.2	-2.8	3.9	0.1
STD ERR OF DP		1.9	1.9	1.9	2.0	1.0	0.9	3.1	0.5	1.8	2.7	1.3	1.7	2.7	4.2	1.2	3.7	4.9	2.7	2.9
STD ERR OF P	1.1	1.9	2.2	2.3	2.4	1.5	1.5	3.2	1.1	2.1	2.6	2.4	1.9	2.9	4.4	1.5	4.2	5.1	2.9	3.0
RESPONSE: 04 AGE: 13 TEXT: greater than 11.																				
DELTA-P	3.3	0.2	0.1	-0.6	0.4	-0.1	0.1	6.2#	-1.2#	0.8	-0.0	0.2	-1.6#	4.4#	-0.7	-0.5	0.6	0.1	0.7	-2.7#
STD ERR OF DP		0.7	0.6	0.7	0.7	0.4	0.4	1.3	0.3	1.4	1.0	0.5	0.5	1.7	1.0	0.5	1.0	0.9	0.8	0.7
STD ERR OF P	0.4	0.7	0.6	0.8	0.8	0.6	0.6	1.4	0.4	1.4	1.1	0.7	0.5	1.8	1.1	0.6	1.1	0.9	0.9	0.7
AGE: 17																				
DELTA-P	2.2	1.4	-0.1	-0.3	-0.7	0.1	-0.1	3.2*	-0.7#	3.0*	2.1*	0.4	-1.3#	3.7	0.3	0.4	-1.1	-0.4	-0.5	-2.2#
STD ERR OF DP		1.0	0.6	0.6	0.7	0.4	0.3	1.3	0.3	1.2	0.9	0.6	0.4	1.9	1.1	0.6	0.6	0.8	0.8	0.4
STD ERR OF P	0.4	1.2	0.7	0.7	0.8	0.5	0.5	1.5	0.4	1.3	1.0	0.9	0.3	2.1	1.2	0.8	0.6	0.8	0.8	0.0
AGE: Ad																				
DELTA-P	3.4	1.8	-1.6	-0.2	0.3	-0.5	0.5	5.9*	-0.9#	2.6*	-0.9	-1.5#	-1.5*	3.7	3.3	0.7	-1.7*	-2.1	-1.5*	-2.5#
STD ERR OF DP		1.5	0.8	0.9	1.0	0.6	0.5	2.8	0.3	1.2	1.0	0.6	0.9	2.7	2.1	0.7	0.8	1.1	0.7	0.8
STD ERR OF P	0.6	1.8	0.7	1.1	1.2	0.8	0.9	3.1	0.6	1.6	0.9	0.6	0.8	3.0	2.3	1.1	0.7	1.0	0.5	0.6
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	5.5	-0.5	-1.5	0.3	1.5	0.4	-0.4	4.3	-0.7	4.5*	0.1	0.4	-2.5#	6.7*	0.4	-0.3	-2.5#	1.1	0.3	-1.7
STD ERR OF DP		0.9	0.8	1.2	1.4	0.5	0.5	2.2	0.4	2.2	1.5	0.8	0.6	2.9	1.9	0.8	1.0	1.7	1.9	1.4
STD ERR OF P	0.7	0.8	0.7	1.4	1.8	0.9	0.7	2.5	0.7	2.5	1.6	1.0	0.7	3.3	2.0	0.8	0.9	2.0	2.1	1.4
AGE: 17																				
DELTA-P	2.2	1.6#	0.8	-1.4#	-0.6	-0.2	0.2	3.6#	-0.8#	0.2	3.3	-0.4	-1.1#	3.6	-0.6	-0.0	-0.7	-0.3	-0.4	-0.6
STD ERR OF DP		0.5	0.8	0.4	0.4	0.3	0.2	1.3	0.2	0.6	1.7	0.3	0.4	2.2	0.7	0.4	0.5	0.8	0.6	1.3
STD ERR OF P	0.3	0.5	1.0	0.3	0.4	0.5	0.3	1.4	0.2	0.6	1.8	0.5	0.4	2.3	0.6	0.4	0.4	0.9	0.6	1.3
AGE: Ad																				
DELTA-P	13.2	1.0	-1.1	0.2	-0.0	-4.0#	3.7#	2.7	-0.6	5.7#	3.1	-2.4*	-6.5#	7.3*	0.9	1.5	-0.6	-4.1	-0.2	-6.6#
STD ERR OF DP		1.7	1.5	1.4	1.5	1.0	0.9	3.1	0.5	2.0	2.2	1.2	1.4	3.0	2.3	1.3	2.2	2.6	2.9	1.9
STD ERR OF P	1.0	1.8	1.7	2.3	1.5	1.0	1.6	3.1	1.1	2.5	2.3	1.5	1.3	3.2	2.1	1.7	2.3	2.6	3.2	2.0

RH06
OBJ II

What is the solution set of the equation (x − 1)(x + 7) = 0?

ANSWER ______________________

SCORING GUIDE

RH06
H21001-3

00 = No Response

10 = (1, -7); (-7, 1); X = 1, X = -7

20 = Only one correct answer with no other answer given; e.g., X = 1; 1; X = -7; -7

21 = 1, 7; -1, -7 with or without brackets

22 = At least two values given with one value correct and the other incorrect except category 21; e.g., X = 1, X does not = 7 or -7; X = -7, X does not = 1 or -1

23 = 7, -1; -1, 7 with or without brackets

24 = X squared + 6X - 7; X squared + 6X - 7 = 0; any attempt to multiply factors

25 = 6; -6; 8; -8 with no other answer given

26 = Other Unacceptable

39 = I Don't Know.

Report #: RH06

NAEP #: H21001-3

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 17
Package-Exercise: 06-06
National P-value:
RH06 26.00

Timing: (in seconds)
Stimulus: 3
Response: 30
RH06 Exercise total: 33

EXERCISE: RR06

What is the solution set of the equation (x - 1)(x + 7) = 0 ?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	3.2	0.4	0.4	-0.0	-0.6	0.4	-0.4	2.5	-0.5*	1.8	0.3	-0.1	-1.0*	4.4#	1.8*	-0.0	0.3	0.2	-1.4	-2.5#
STD ERR OF DP		0.8	0.6	0.6	0.6	0.4	0.3	1.5	0.2	1.1	1.0	0.6	0.4	1.4	0.8	0.6	1.0	2.0	0.7	0.5
STD ERR OF P	0.4	1.0	0.6	0.7	0.7	0.5	0.5	1.6	0.4	1.1	1.2	0.7	0.5	1.5	0.7	0.7	1.0	2.1	0.7	0.5
RESPONSE: 10* AGE: 17	TEXT: (1,-7); (-7,1); x = 1, x = -7																			
DELTA-P	26.0	-6.8*	-2.1	-2.2	9.7#	-0.6	0.6	-16.5#	3.0#	-15.3#	-16.6#	-3.8#	12.1#	-12.5#	-11.6#	-1.4	2.2	-8.6*	1.0	21.6#
STD ERR OF DP		2.7	2.1	2.3	3.1	1.6	1.4	2.2	0.5	2.5	2.4	1.3	1.1	2.6	2.3	2.1	3.2	3.5	3.0	5.2
P-VALUE	26.0	19.2	23.9	23.8	35.7	25.4	26.6	9.5	29.0	10.7	9.4	22.2	38.1	13.5	14.4	24.6	28.2	17.4	27.0	47.6
STD ERR OF P	1.5	3.0	2.0	2.6	3.9	1.6	2.5	1.9	1.7	2.3	2.1	2.0	2.1	2.6	1.9	2.1	3.2	3.5	3.2	6.1
RESPONSE: 20 AGE: 17	TEXT: Only one correct answer with no other answer given; e.g., X = 1; 1; X = -7; -7																			
DELTA-P	7.0	-3.5#	-0.6	4.7#	-1.7	0.2	-0.2	-3.4#	0.7#	-4.2#	-0.9	1.3	0.2	-2.4	3.4	-0.6	-2.0	5.5	1.4	-2.8
STD ERR OF DP		0.9	1.3	1.3	1.1	0.7	0.6	1.1	0.2	1.2	1.4	0.9	0.7	1.6	3.0	1.0	1.1	3.6	1.4	1.7
STD ERR OF P	0.7	0.8	1.5	1.6	1.2	1.0	1.0	1.0	0.8	0.9	1.4	1.2	1.0	1.5	3.1	1.1	1.2	3.9	1.5	1.8
RESPONSE: 21 AGE: 17	TEXT: 1, 7; -1, -7 with or without brackets																			
DELTA-P	1.1	0.0	0.0	-0.7#	0.7	-0.0	0.0	0.4	-0.1	-0.4	1.0	-0.0	-0.2	-0.4	-0.3	0.4	0.6	-0.7	-0.9#	0.3
STD ERR OF DP		0.3	0.5	0.3	0.4	0.3	0.3	0.7	0.1	0.5	1.1	0.4	0.3	0.5	0.5	0.3	0.9	0.4	0.3	0.7
STD ERR OF P	0.2	0.3	0.6	0.2	0.6	0.4	0.4	0.7	0.3	0.5	1.2	0.4	0.4	0.4	0.5	0.4	1.1	0.4	0.2	0.8
RESPONSE: 22 AGE: 17	TEXT: At least two values given with one correct and the other incorrect except category 21; e.g., X = 1, X not = 7 or -7; X = -7, X not = 1 or -1																			
DELTA-P	1.2	-0.6	1.0	0.3	-0.7*	0.2	-0.2	-0.5	0.0	0.8	-0.7	0.5	-0.3	0.3	0.1	-0.2	-0.2	1.6	-1.0#	0.7
STD ERR OF DP		0.4	0.6	0.5	0.3	0.3	0.2	0.5	0.1	0.9	0.4	0.4	0.3	0.9	0.8	0.3	0.5	1.6	0.3	0.9
STD ERR OF P	0.3	0.4	0.7	0.6	0.3	0.4	0.3	0.5	0.3	1.1	0.3	0.5	0.3	0.9	0.9	0.4	0.5	1.8	0.1	1.0
RESPONSE: 23 AGE: 17	TEXT: 7, -1; -1, 7 with or without brackets																			
DELTA-P	0.5	-0.0	-0.1	-0.1	0.2	0.2	-0.2	-0.5#	0.1#	-0.5#	-0.5#	-0.2	0.4*	0.1	1.1	-0.2	-0.3	-0.3	0.0	0.0
STD ERR OF DP		0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.6	0.8	0.2	0.3	0.3	0.3	0.5
STD ERR OF P	0.2	0.2	0.3	0.3	0.4	0.3	0.2	0.0	0.2	0.0	0.0	0.2	0.4	0.6	0.9	0.2	0.2	0.2	0.4	0.5
RESPONSE: 24 AGE: 17	TEXT: X squared + 6X - 7; X squared + 6X - 7 = 0; any attempt to multiply factors																			
DELTA-P	7.9	3.3	-0.9	-2.4*	3.2*	0.4	-0.4	-4.3#	0.6*	-3.1*	-1.5	-0.3	1.6*	-2.7	-2.1	1.2	-1.8	-0.2	3.2	-2.3
STD ERR OF DP		1.4	1.5	1.1	1.6	0.8	0.7	1.5	0.3	1.5	1.7	0.9	0.8	1.7	1.6	1.0	1.5	2.5	2.2	1.5
STD ERR OF P	0.8	1.5	1.7	1.2	2.0	1.2	1.0	1.3	1.0	1.4	1.8	1.2	1.4	1.7	1.5	1.3	1.6	2.5	2.6	1.6
RESPONSE: 25 AGE: 17	TEXT: 6; -6; 8; -8 with no other answer given																			
DELTA-P	5.3	-0.2	2.9#	-0.2	-2.3#	0.9	-0.8	3.6*	-0.6*	1.0	2.0	-0.0	-0.7	1.7	0.9	-0.2	1.3	-1.6	-1.7	0.7
STD ERR OF DP		1.0	1.1	1.0	0.8	0.6	0.5	1.7	0.3	1.5	1.3	0.8	0.5	1.3	1.2	0.7	1.3	1.7	1.2	2.5
STD ERR OF P	0.6	1.1	1.4	1.2	0.7	0.7	0.8	1.9	0.6	1.5	1.3	1.0	0.9	1.2	1.1	0.9	1.3	1.8	1.3	2.8
RESPONSE: 26 AGE: 17	TEXT: Other Unacceptable																			
DELTA-P	21.6	5.1	-1.6	1.4	-4.1#	0.4	-0.4	10.2#	-1.8#	5.2	5.3*	2.7*	-4.8#	8.8*	4.6	1.3	-1.4	7.8#	-6.4#	-7.3#
STD ERR OF DP		2.8	1.8	1.7	1.6	1.0	0.9	3.0	0.5	3.0	2.4	1.3	0.9	4.0	2.3	1.5	2.3	2.2	2.0	2.8
STD ERR OF P	1.1	3.3	2.0	2.0	1.7	1.5	1.5	3.3	1.2	3.3	2.6	1.7	1.4	4.3	2.5	2.0	2.3	1.9	2.1	3.1
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	26.2	5.4*	1.1	-0.7	-4.5*	-2.0	1.8	8.4*	-1.4#	14.8#	11.8#	-0.1	-7.4#	2.6	2.1	-0.4	1.4	-3.9	5.6*	-8.4#
STD ERR OF DP		2.4	2.1	1.5	1.9	1.4	1.3	3.6	0.5	3.8	3.0	1.6	1.1	3.9	4.0	1.5	3.4	4.4	2.8	2.8
STD ERR OF P	1.1	2.8	2.4	1.6	2.3	1.5	1.9	3.9	1.2	4.2	3.3	1.9	1.5	3.8	4.5	1.8	3.6	4.4	2.8	3.0

RH07
OBJ II

The formula for the relationship between Fahrenheit and Centigrade temperatures is $F = \frac{9}{5}C + 32°$. What is C when F is 77°?

ANSWER ______________________

Report #: RH07

NAEP #: N30004-23

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		09-24	10-17
National P-value:			
	RH07	2.19	23.96
Timing: (in seconds)			
	Stimulus:	15	14
	Response:	60	60
RH07	Exercise total:	75	74

SCORING GUIDE
RH07
N30004-23

00 = No Response

10 = 25 degrees; 25 degrees Centigrade

11 = 25 with no unit or wrong unit

12 = Correct process with no answer or wrong answer; e.g., 5/9(77 - 32)

20 = 170.6; 138.6 with or without sign for degrees; attempt to add 9/5(77) and 32

21 = 196.2 with or without sign for degrees; 9/5(77 + 32)

22 = 74.8; 10.8 with or without sign for degrees; attempt to add or subtract 32 and 5/9(77)

23 = Other Unacceptable

24 = 109 with or without sign for degrees; (32 + 77); 45 with or without sign for degrees; (77 - 32)

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

EXERCISE: RH07

The formula for the relationship between Fahrenheit and Centigrade temperatures is F = (9/5)C + 32 degrees. What is C when F is 77 degrees?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	7.5	0.9	0.8	-1.5	-0.2	1.3*	-1.5*	0.6	-0.2	0.5	-3.7#	2.2*	-2.4#	7.1	-0.6	-1.3	-0.7	1.5	0.5	-0.4
STD ERR OF DP		2.4	2.0	1.7	1.9	0.6	0.7	1.7	0.4	2.2	1.5	1.0	0.7	6.1	3.3	1.6	1.9	3.3	2.5	2.1
STD ERR OF P	1.2	3.0	2.4	1.9	2.0	1.3	1.4	1.5	1.3	2.6	1.4	1.7	1.0	6.4	3.5	2.0	1.8	3.5	2.7	2.0
AGE: 17																				
DELTA-P	3.3	-0.8	-0.3	1.2	-0.5	1.0*	-0.9*	1.7	-0.5*	2.1	0.5	0.5	-1.2*	3.3	3.7*	-0.9	-0.1	0.2	-0.6	-1.8
STD ERR OF DP		0.6	0.8	0.8	0.9	0.4	0.4	1.1	0.2	2.0	1.2	0.7	0.5	2.2	1.6	0.6	1.0	1.5	0.8	1.0
STD ERR OF P	0.5	0.5	0.9	1.0	1.1	0.7	0.6	1.2	0.5	2.0	1.3	0.8	0.7	2.4	1.8	0.6	1.0	1.5	0.9	1.1
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)																				
DELTA-P	2.2	-0.3	-1.6#	-0.0	2.0#	0.1	-0.1	-2.0#	0.4#	-2.2#	-2.2#	0.3	1.3#	-1.8#	-1.2	-0.5	1.7	1.0	-0.9	1.7
STD ERR OF DP		1.0	0.5	0.7	0.8	0.5	0.5	0.5	0.1	0.4	0.4	0.5	0.5	0.6	0.7	0.5	2.0	1.4	0.7	1.4
P-VALUE	2.2	1.9	0.6	2.2	4.2	2.3	2.1	0.2	2.6	0.0	0.0	2.5	3.5	0.4	1.0	1.7	3.9	3.2	1.3	3.9
STD ERR OF P	0.4	1.2	0.3	0.7	0.9	0.8	0.5	0.2	0.5	0.0	0.0	0.6	0.8	0.4	0.6	0.5	2.2	1.5	0.8	1.5
AGE: 17																				
DELTA-P	24.0	-1.9	-5.0*	2.6	3.7	-0.0	0.0	-16.0#	3.1#	-14.3#	-10.3#	-3.7#	10.2#	-14.6#	-11.3#	-1.4	5.2	1.5	3.1	12.1#
STD ERR OF DP		2.3	2.1	2.5	2.9	1.2	1.1	2.3	0.6	2.7	2.2	1.5	1.4	2.2	4.1	1.7	2.7	4.9	3.3	3.3
P-VALUE	24.0	22.1	19.0	26.5	27.6	23.9	24.0	8.0	27.1	9.6	13.7	20.3	34.1	9.4	12.7	22.6	29.1	25.4	27.0	36.1
STD ERR OF P	1.4	2.4	2.1	3.1	3.5	1.7	1.9	1.8	1.8	3.1	2.6	1.8	2.0	2.0	4.4	2.3	2.8	4.9	3.6	3.4
RESPONSE: 10 AGE: 13 TEXT: 25 degrees; 25 degrees Centigrade																				
DELTA-P	1.7	0.2	-1.1*	0.1	0.9	0.2	-0.3	-1.5#	0.3#	-1.7#	-1.7#	0.2	1.0*	-1.3*	-0.7	-0.6	2.0	1.5	-1.0	0.9
STD ERR OF DP		1.0	0.5	0.7	0.7	0.4	0.4	0.5	0.1	0.4	0.4	0.5	0.4	0.6	0.7	0.5	2.0	1.4	0.5	1.0
STD ERR OF P	0.4	1.2	0.3	0.8	0.7	0.7	0.4	0.2	0.5	0.0	0.0	0.7	0.7	0.4	0.6	0.5	2.2	1.5	0.5	1.0
AGE: 17																				
DELTA-P	16.4	-0.1	-4.3*	3.3	0.6	1.7	-1.6	-11.8#	2.5#	-9.9#	-9.1#	-2.5	7.7#	-10.7#	-6.9*	-0.7	2.8	-0.3	1.8	9.9#
STD ERR OF DP		2.0	1.8	2.4	1.8	1.2	1.1	1.8	0.5	2.5	1.6	1.3	1.3	2.1	3.4	1.4	3.0	4.4	2.0	2.8
STD ERR OF P	1.2	2.1	1.8	3.2	2.0	1.6	1.7	1.5	1.5	3.0	1.5	1.5	1.9	2.0	3.7	2.0	3.3	4.5	2.0	2.8
RESPONSE: 11 AGE: 13 TEXT: 25 with wrong unit or no unit																				
DELTA-P	0.5	-0.5*	-0.5*	-0.1	1.1	-0.1	0.1	-0.5*	0.1*	-0.5*	-0.5*	0.1	0.3	-0.5*	-0.5*	0.1	-0.3	-0.5*	0.2	0.8
STD ERR OF DP		0.2	0.2	0.3	0.6	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.6	1.1
STD ERR OF P	0.2	0.0	0.0	0.2	0.7	0.3	0.3	0.0	0.2	0.0	0.0	0.3	0.4	0.0	0.0	0.3	0.2	0.0	0.6	1.3
AGE: 17																				
DELTA-P	7.6	-1.9	-0.7	-0.8	3.1	-1.7*	1.6*	-4.2#	0.6	-4.5#	-1.2	-1.2	2.5#	-3.9#	-4.3#	-0.7	2.3	1.7	1.3	2.3
STD ERR OF DP		1.2	1.0	1.0	1.7	0.7	0.7	1.3	0.3	1.3	1.8	0.7	0.7	1.3	1.3	0.9	1.6	2.6	2.2	1.7
STD ERR OF P	0.7	1.3	0.9	1.0	2.2	1.0	1.0	1.1	0.9	1.3	2.0	1.0	1.0	1.2	1.2	1.1	1.7	2.6	2.5	1.8
RESPONSE: 12 AGE: 13 TEXT: Correct process with no answer or wrong answer; e.g., 5/9(77 - 32)																				
DELTA-P	0.1	-0.1	-0.1	0.0	0.1	-0.1	0.1	-0.1	0.0	-0.1	-0.1	0.0	0.0	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
AGE: 17																				
DELTA-P	5.2	-1.5*	1.4	0.6	-0.8	0.8	-0.7	-3.0#	0.7#	-3.2#	-2.2	-0.6	2.2#	-2.6#	-2.3*	-1.0	2.5	-2.6	1.7	2.7
STD ERR OF DP		0.7	1.1	0.8	0.9	0.6	0.6	0.9	0.2	1.2	1.1	0.7	0.7	1.0	1.0	0.7	1.7	1.8	1.1	1.9
STD ERR OF P	0.5	0.6	1.4	1.0	1.0	1.0	0.7	0.7	0.7	1.1	1.2	0.7	1.1	1.0	0.9	0.8	1.9	1.8	1.2	2.5
RESPONSE: 20 AGE: 13 TEXT: 170.6, 138.6 with or without sign for degrees; attempt to add 9/5(77) and 32																				
DELTA-P	0.4	0.4	-0.2	0.1	-0.2	-0.1	0.1	-0.4#	0.0	0.3	-0.4#	0.1	-0.1	-0.4#	-0.0	0.1	0.3	0.2	-0.1	-0.4#
STD ERR OF DP		0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.7	0.2	0.2	0.2	0.2	0.4	0.2	0.7	0.6	0.3	0.2
STD ERR OF P	0.2	0.5	0.2	0.4	0.1	0.2	0.2	0.0	0.2	0.7	0.0	0.3	0.2	0.0	0.4	0.3	0.7	0.7	0.3	0.0

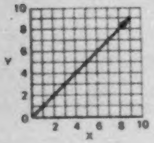
EXERCISE: RH07

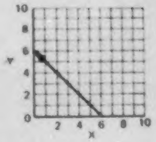
The formula for the relationship between Fahrenheit and Centigrade temperatures is F = (9/5) C + 32 degrees. What is C when F is 77 degrees?

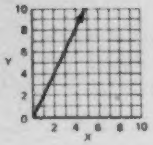
	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: 17 TEXT: 170.6; 138.6 with or without sign for degrees; attempt to add 9/5(77) and 32																				
DELTA-P	1.1	0.2	-0.6*	0.2	0.3	0.1	-0.1	-0.6	0.2	0.5	-0.4	0.4	-0.3	-0.3	1.2	0.6	-1.1#	-0.8	-0.8	0.9
STD ERR OF DP		0.7	0.3	0.3	0.6	0.2	0.2	0.4	0.1	0.5	0.5	0.4	0.3	0.5	0.7	0.4	0.3	0.4	0.4	1.3
STD ERR OF P	0.3	0.8	0.2	0.3	0.7	0.4	0.3	0.3	0.3	0.5	0.5	0.6	0.4	0.5	0.7	0.5	0.0	0.3	0.4	1.5
RESPONSE: 21 AGE: 13 TEXT: 196.2 with or without sign for degrees; (9/5)(77 + 32)																				
DELTA-P	0.1	-0.1	-0.1	-0.1	0.3	0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.2	-0.0	-0.1	-0.1	0.2	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.0	0.3	0.2	0.1	0.0	0.1	0.0	0.0	0.3	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.2	0.1	-0.1	0.0	-0.0	0.1	-0.1	-0.1	0.0	-0.2*	-0.1	0.0	0.0	-0.2*	0.1	0.0	-0.2*	-0.2*	0.0	0.2
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.3
STD ERR OF P	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.0	0.3	0.2	0.0	0.0	0.2	0.3
RESPONSE: 22 AGE: 13 TEXT: 74.8; 10.8 with or without sign for degrees; attempt to add or subtract 32 and 5/9(77)																				
DELTA-P	0.6	0.3	-0.6#	-0.2	0.6	0.1	-0.1	-0.4	0.0	-0.6#	-0.1	-0.4	0.6*	-0.3	-0.6#	-0.0	0.5	-0.6#	-0.1	0.9
STD ERR OF DP		0.3	0.2	0.3	0.5	0.2	0.2	0.3	0.1	0.2	0.5	0.3	0.3	0.4	0.2	0.3	0.8	0.2	0.4	1.0
STD ERR OF P	0.2	0.4	0.1	0.3	0.5	0.3	0.3	0.2	0.3	0.0	0.5	0.2	0.5	0.3	0.0	0.3	0.8	0.0	0.4	1.1
AGE: 17																				
DELTA-P	0.6	0.2	0.1	-0.4	0.2	0.1	-0.1	-0.3	-0.0	0.2	1.0	0.1	-0.4	0.4	-0.6#	0.7*	-0.1	-0.6#	-0.6#	-0.3
STD ERR OF DP		0.3	0.4	0.2	0.4	0.2	0.2	0.3	0.1	0.6	1.0	0.4	0.2	0.6	0.2	0.3	0.4	0.2	0.2	0.4
STD ERR OF P	0.2	0.4	0.5	0.2	0.5	0.3	0.2	0.3	0.2	0.6	1.1	0.5	0.1	0.6	0.0	0.5	0.4	0.0	0.0	0.3
RESPONSE: 23 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	33.1	2.4	0.2	-2.6	0.3	1.9	-2.1*	11.4#	-2.2#	6.8	2.8	-1.7	-0.0	6.9*	5.9	1.6	-1.3	-1.7	-7.5*	-1.6
STD ERR OF DP		2.0	2.3	2.3	2.0	1.0	1.0	3.1	0.5	4.6	3.4	1.6	1.5	3.0	5.2	1.6	3.0	4.2	3.3	3.0
STD ERR OF P	1.2	2.1	2.9	2.7	2.2	1.6	1.7	3.0	1.4	4.8	3.3	2.2	2.1	2.7	5.6	1.9	3.0	4.4	3.5	3.2
AGE: 17																				
DELTA-P	24.6	-2.4	2.2	-2.0	2.0	3.3#	-3.1#	3.2	-1.0	6.9	-3.0	-1.0	0.4	4.7	-0.2	1.6	-1.0	-4.1	-1.0	-3.0
STD ERR OF DP		1.7	2.1	1.9	2.4	1.1	1.0	2.9	0.7	4.5	2.2	1.5	1.1	3.0	2.6	1.8	2.4	2.9	3.5	2.7
STD ERR OF P	1.2	1.5	2.4	2.2	3.0	1.7	1.5	3.0	1.4	5.1	2.2	2.0	1.6	3.1	2.5	2.3	2.4	2.9	4.0	2.8
RESPONSE: 24 AGE: 13 TEXT: 109 with or without sign for degrees; (32 + 77); 45 with or without sign for degrees; (77 - 32)																				
DELTA-P	8.7	-1.5	-0.5	1.4	0.5	-0.1	0.1	2.2	-0.1	-2.6	0.7	0.6	0.5	-2.4	-3.3	0.7	1.0	-1.3	0.3	2.0
STD ERR OF DP		1.4	1.7	1.6	1.6	0.7	0.8	2.2	0.3	1.8	1.8	1.2	1.0	2.6	2.6	1.0	2.2	2.0	2.4	2.4
STD ERR OF P	0.9	1.5	2.0	1.9	1.8	1.1	1.3	2.1	1.0	1.9	1.9	1.6	1.4	2.7	2.8	1.2	2.8	2.0	2.7	2.6
AGE: 17																				
DELTA-P	6.2	2.0	-1.3	-1.2	0.9	-0.6	0.5	3.6	-0.4	-0.5	1.3	-0.1	-0.4	2.0	0.9	0.5	-1.7	-0.6	-1.1	0.5
STD ERR OF DP		1.2	0.9	1.0	1.2	0.5	0.5	1.8	0.3	1.6	1.3	0.8	0.7	2.4	1.7	0.9	1.0	2.1	1.3	1.5
STD ERR OF P	0.6	1.3	1.0	1.1	1.5	0.8	0.8	2.0	0.7	1.6	1.5	1.1	0.9	2.5	1.6	1.2	1.0	2.1	1.5	1.6
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	47.4	-1.9	2.1	2.9	-3.4	-3.3#	3.6#	-11.2#	2.0#	-2.0	3.2	-1.2	0.0	-8.9	-0.1	-0.9	-1.3	1.1	7.9*	-2.0
STD ERR OF DP		2.5	3.0	2.5	2.4	1.2	1.3	2.6	0.5	4.0	3.5	1.6	1.8	7.3	6.6	2.1	4.0	5.1	3.6	4.3
STD ERR OF P	1.5	2.8	3.7	2.8	2.6	1.9	2.0	2.0	1.8	4.3	3.6	2.1	2.6	7.6	7.1	2.1	4.1	5.4	3.9	4.5
AGE: 17																				
DELTA-P	34.9	4.0*	3.6	-1.1	-5.7#	-4.7#	4.3#	11.5#	-2.1#	8.6*	13.1#	4.5#	-10.5#	7.3	8.3#	0.0	-3.5	7.3	-0.7	-11.8#
STD ERR OF DP		1.9	2.6	1.9	1.8	1.2	1.2	3.2	0.7	4.1	3.0	1.7	1.4	4.4	3.1	1.7	2.9	4.8	2.7	3.2
STD ERR OF P	1.2	1.9	3.2	2.2	2.0	1.7	1.7	3.4	1.3	4.5	3.2	2.2	1.5	4.7	3.0	2.2	3.2	4.8	2.9	3.1

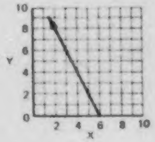
RH08
OBJ III

Which chart shows part of the graph of the equation $x = y$?

● 

○ 

○ 

○ 

○ I don't know.

Report #: RH08

NAEP #: H01013-23

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		03-07	08-18
National P-value:			
	RH08	13.31	46.43
Timing: (in seconds)			
	Stimulus:	8	7
	Response:	41	40
	I don't know:	5	5
	Pause:	6	6
RH08	Exercise total:	60	58

EXERCISE: RH08

Which chart shows part of the graph of the equation x = y ?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.1	-0.1	-0.1	0.0	0.2	0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.0	0.0	-0.1	-0.1	0.1	-0.1	0.5	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.2	0.3	0.2	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.6	0.0	0.0
AGE: 17																				
DELTA-P	0.9	-0.7	2.0	-0.7	-0.6	-0.1	0.1	-0.8	-0.1	0.0	-0.0	0.0	-0.2	-0.7	-0.9	-0.6	-0.6	-0.9	5.4	-0.4
STD ERR OF DP		0.7	2.1	0.7	0.7	0.1	0.1	0.7	0.1	0.3	0.2	0.3	0.2	0.7	0.7	0.7	0.7	0.7	5.4	0.7
STD ERR OF P	0.7	0.1	2.8	0.2	0.2	0.6	0.7	0.1	0.6	0.9	0.6	0.9	0.6	0.1	0.0	0.2	0.3	0.0	6.1	0.4
RESPONSE: 01* AGE: 13	TEXT: x = y																			
DELTA-P	13.3	-4.2#	-1.1	1.6	3.0	1.3	-1.2	-5.4#	0.9*	-2.9	-2.6	-1.3	3.5#	-5.5#	-2.1	0.6	-1.3	-0.6	-2.7	7.2#
STD ERR OF DP		1.2	1.1	1.4	1.8	0.8	0.7	1.9	0.4	3.1	2.1	1.2	1.2	2.2	1.9	1.1	2.0	2.5	1.7	2.3
P-VALUE	13.3	9.1	12.3	14.9	16.4	14.6	12.1	7.9	14.2	10.4	10.7	12.0	16.8	7.8	11.2	14.0	12.0	12.7	10.7	20.5
STD ERR OF P	0.8	1.1	1.0	1.7	2.3	1.2	1.1	1.8	1.0	2.9	2.2	1.4	1.5	2.0	1.8	1.2	2.1	2.8	1.8	2.6
AGE: 17																				
DELTA-P	46.4	-15.2#	2.2	1.6	9.4#	3.4#	-3.1#	-26.5#	5.1#	-21.7#	-19.3#	-4.1*	15.6#	-9.7	-5.0	-2.6	4.0	-3.9	-1.9	17.2#
STD ERR OF DP		3.1	3.0	2.6	2.8	1.2	1.1	3.0	0.8	3.6	2.8	1.9	1.5	5.7	5.3	2.2	4.5	6.2	5.0	3.4
P-VALUE	46.4	31.2	48.7	48.0	55.8	49.9	43.3	19.9	51.5	24.7	27.2	42.3	62.0	36.7	41.4	43.9	50.4	42.5	44.6	63.7
STD ERR OF P	1.7	3.5	3.4	3.0	3.2	2.1	1.9	3.1	1.9	3.8	3.0	2.1	2.2	5.9	5.6	2.5	4.8	6.6	5.3	3.4
RESPONSE: 02 AGE: 13	TEXT: x = 6 - y																			
DELTA-P	74.1	3.0	-0.4	-0.8	-1.3	-2.0	1.8	1.1	-0.3	-0.9	5.0	2.5	-3.2*	0.3	4.9	0.3	-0.2	2.3	-0.3	-5.5*
STD ERR OF DP		1.7	1.7	1.7	2.4	1.1	1.1	3.0	0.5	3.9	2.6	1.3	1.4	3.0	2.5	1.3	2.2	3.1	3.3	2.3
STD ERR OF P	1.1	1.7	2.0	1.9	3.0	1.6	1.5	3.3	1.2	3.9	2.7	1.7	1.8	3.1	2.3	1.6	2.4	3.5	3.7	2.3
AGE: 17																				
DELTA-P	43.1	12.9#	-2.8	0.3	-8.9#	-3.9#	3.5#	19.4#	-3.7#	19.0#	10.7#	3.5	-11.6#	5.8	8.6	2.6	-3.4	6.1	-5.0	-13.7#
STD ERR OF DP		3.0	2.4	2.7	2.3	1.2	1.1	3.6	0.8	4.3	2.7	1.9	1.5	4.8	5.0	2.0	4.3	7.0	4.9	2.8
STD ERR OF P	1.5	3.4	2.5	3.3	2.6	1.9	2.0	4.0	1.6	4.6	3.0	2.4	1.8	5.0	5.3	[illegible]	4.8	7.5	4.9	2.6
RESPONSE: 03 AGE: 13	TEXT: y = 2x																			
DELTA-P	2.3	0.8	-0.4	-0.3	0.0	-0.8*	0.7*	1.0	-0.1	-0.4	-0.3	1.1*	-0.9#	0.4	-0.6	-0.0	0.9	-0.5	0.6	-0.7
STD ERR OF DP		0.6	0.5	0.6	0.7	0.4	0.3	0.9	0.2	1.2	0.9	0.5	0.3	1.0	1.1	0.5	1.2	0.9	1.2	0.7
STD ERR OF P	0.3	0.7	0.5	0.7	0.8	0.3	0.6	1.1	0.4	1.2	0.9	0.8	0.4	1.0	1.1	0.5	1.3	0.9	1.3	0.7
AGE: 17																				
DELTA-P	1.5	0.7	-0.7	0.3	-0.2	0.0	-0.0	3.3*	-0.5*	0.4	-0.0	0.4	-0.5	3.0	0.3	-0.3	-0.6	-0.3	-0.4	-0.5
STD ERR OF DP		0.5	0.4	0.6	0.5	0.3	0.3	1.4	0.2	0.7	0.5	0.5	0.3	1.7	0.5	0.4	0.5	0.9	0.7	0.7
STD ERR OF P	0.3	0.5	0.3	0.7	0.5	0.5	0.3	1.6	0.2	0.6	0.4	0.7	0.4	1.8	0.4	0.4	0.5	0.9	0.8	0.7
RESPONSE: 04 AGE: 13	TEXT: y = 12 - 2x																			
DELTA-P	2.4	1.3	0.1	-0.7	-0.5	0.0	0.0	2.6	-0.3	2.9	1.4	-0.3	[illegible]	1.1	0.2	1.0	-0.8	-0.1	-1.2	-1.5*
STD ERR OF DP		0.7	0.6	0.6	0.6	0.5	0.4	1.4	0.2	2.1	1.1	0.4	0.5	1.4	1.2	0.5	0.7	1.0	0.8	0.7
STD ERR OF P	0.4	0.8	0.7	0.8	0.7	0.6	0.6	1.5	0.4	2.3	1.1	0.5	0.4	1.5	1.2	0.7	0.7	1.0	0.8	0.6
AGE: 17																				
DELTA-P	1.8	0.2	-0.5	0.6	-0.4	0.7	-0.6	1.8*	-0.2	-0.5	1.6	0.4	-0.5	2.1	-1.2#	0.1	0.1	-1.0	0.9	-1.0
STD ERR OF DP		0.6	0.5	0.6	0.4	0.4	0.4	0.8	0.2	0.8	1.1	0.5	0.4	1.3	0.4	0.4	1.3	0.6	1.5	0.6
STD ERR OF P	0.3	0.6	0.5	0.8	0.4	0.6	0.5	0.9	0.4	0.8	1.3	0.5	0.6	1.4	0.3	0.4	1.4	0.5	1.6	0.6
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	7.7	-0.7	1.9	0.1	-1.5	1.3	-1.2	0.8	-0.2	1.4	-3.4*	-2.0*	1.3	3.9	-2.3	-1.9*	1.6	-1.5	3.7	0.6
STD ERR OF DP		0.9	1.5	1.1	1.3	0.7	0.6	1.5	0.3	2.7	1.5	0.9	0.9	3.1	2.0	0.8	1.3	1.9	2.8	1.9
STD ERR OF P	0.7	0.7	1.9	1.3	1.5	1.2	0.8	1.6	0.8	2.6	1.8	[illegible]	1.2	3.3	1.8	0.8	1.5	2.0	3.2	1.9

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: RM08

Which chart shows part of the graph of the equation x = y ?

RESPONSE: 09 AGE: 17 TEXT: I Don't Know.

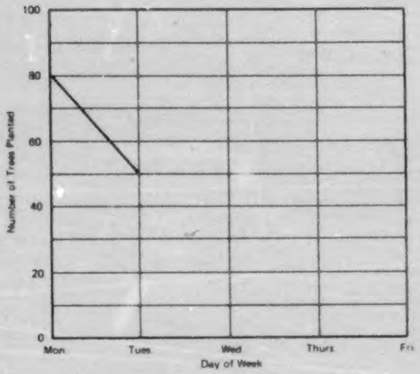
	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	6.2	2.1*	-0.3	-2.1*	0.7	-0.2	0.2	2.8	-0.6*	2.8	7.0*	-0.2	-2.8*	-0.4	-1.9	0.8	0.5	0.1	0.9	-1.7
STD ERR OF DP		1.0	1.0	0.9	1.2	0.5	0.5	1.5	0.3	1.7	2.2	0.9	0.6	1.5	1.4	0.7	1.7	2.5	1.5	1.4
STD ERR OF P	0.6	1.0	1.1	1.0	1.5	0.7	0.8	1.7	0.6	1.7	2.4	1.0	0.7	1.6	1.3	0.9	1.9	2.6	1.6	1.5

RH09
OBJ III

Here is a table that shows the number of trees planted along a highway in a week.

Days of the Week	Monday	Tuesday	Wednesday	Thursday	Friday
Number of Trees Planted	80	50	60	90	75

On the diagram below, draw a line graph to show the total number of plantings throughout the week. The first two days' plantings have been drawn for you. Use the ruler you have been given to draw the graph.



SCORING GUIDE
RH09
N41019-234

00 = No Response

10 = All points correctly plotted; i.e., even numbers at the cross point (within 1/8 unit) and the odd number within 1/4 of a unit. Lines must be straight.

20 = All points but 75 correctly plotted

21 = Other Unacceptable; i.e., all points correct, but no connections, etc.

39 = I Don't Know.

Report #: RH09

NAEP #: N41019-234

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		06-17	04-18	01-06
National P-value:				
	RH09	39.04	68.04	55.26

Timing: (in seconds)

		13	17	Adult
	Stimulus:	24	23	23
	Response:	96	95	*
RH09	Exercise total:	120	118	*

*Time not limited by paced tape.

EXERCISE: RN09

A table shows the number of trees planted along a highway in a week. On the diagram, draw a line graph to show the total number of plantings throughout the week.

RESPONSE: 00 TEXT: No Response.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	3.6	-0.8	1.3	0.2	-0.9	-0.1	0.1	6.6#	-1.4#	2.8	1.2	0.8	-2.0#	9.2#	1.2	-1.0	-0.4	0.6	-0.8	-2.7#
STD ERR OF DP		0.9	0.8	1.1	0.8	0.5	0.5	2.0	0.4	2.7	1.5	0.6	0.6	2.5	3.1	0.8	1.1	1.6	1.0	0.7
STD ERR OF P	0.6	1.0	0.9	1.4	0.8	0.7	0.4	2.2	0.4	2.9	1.6	1.0	0.4	2.6	3.4	1.0	1.1	1.6	1.0	0.5
AGE: 17																				
DELTA-P	1.8	0.8	-0.4	-0.4	0.3	-0.4	0.4	2.9	-0.5*	3.5	0.7	-0.9#	-1.1#	2.9	-1.4#	-0.6	0.2	-1.3	1.2	-0.4
STD ERR OF DP		0.7	0.6	0.9	0.7	0.3	0.3	1.5	0.2	1.8	1.2	0.4	0.3	1.7	0.5	0.5	0.9	0.7	1.9	1.2
STD ERR OF P	0.5	0.7	0.5	1.2	0.8	0.5	0.6	1.6	0.5	1.9	1.3	0.6	0.3	1.9	0.3	0.3	0.9	0.5	2.2	1.3
AGE: Ad																				
DELTA-P	2.2	0.4	0.4	0.3	-1.0	-0.7	0.6	5.6	-0.9#	0.5	0.6	-1.7#	-1.7#	2.1	2.3	-0.8	-0.9	5.3	-1.9#	-1.7#
STD ERR OF DP		0.9	1.0	1.0	0.6	0.5	0.5	2.9	0.4	0.5	1.0	0.5	0.6	2.2	1.7	0.6	0.8	2.9	0.6	0.7
STD ERR OF P	0.5	0.9	1.2	1.3	0.5	0.6	0.8	3.2	0.4	0.7	1.2	0.2	0.3	2.4	1.8	0.6	0.7	3.2	0.2	0.5

RESPONSE: 10* TEXT: All points correctly plotted; even numbers at the cross point within 1/8 unit and the odd number within 1/4 unit. Lines must be straight.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	39.0	-12.4#	-3.2	7.2*	6.3*	4.0#	-3.7#	-32.7#	5.2#	-13.9*	-9.1*	-0.7	9.7#	-21.1#	4.6	-2.0	-2.8	-2.0	6.7*	11.0#
STD ERR OF DP		2.4	3.1	3.2	3.0	1.5	1.4	2.3	0.6	5.7	4.0	1.7	1.7	3.9	7.7	2.3	5.2	5.5	2.7	3.5
P-VALUE	39.0	26.6	35.8	46.3	45.3	43.0	35.4	6.4	44.2	25.1	29.9	38.4	48.7	17.9	43.7	37.1	36.3	37.0	45.7	50.0
STD ERR OF P	1.8	2.3	3.5	4.0	3.4	2.1	2.5	1.7	2.1	6.3	3.6	2.6	2.3	3.4	8.4	2.5	5.8	5.9	3.0	3.7
AGE: 17																				
DELTA-P	64.0	-14.3#	4.9	1.0	5.3*	4.9#	-5.0#	-44.3#	7.5#	-23.5#	-22.2#	0.9	11.3#	-24.3#	-6.2	-0.8	5.9*	-3.5	5.4	12.3#
STD ERR OF DP		3.0	2.6	2.5	2.3	1.1	1.3	2.7	1.1	5.2	3.9	1.4	1.3	3.9	6.6	2.6	2.9	3.9	3.1	3.0
P-VALUE	64.0	49.8	68.9	65.0	69.4	69.0	59.1	19.7	71.5	40.5	41.8	64.9	75.3	39.8	57.9	63.2	69.9	60.5	69.5	76.4
STD ERR OF P	1.5	3.3	2.8	3.2	2.6	1.8	2.1	2.4	1.2	5.8	3.9	2.2	1.6	4.2	6.7	2.7	2.8	4.0	3.8	3.3
AGE: Ad																				
DELTA-P	55.3	-6.8	1.3	3.4	0.6	8.5#	-7.9#	-36.9#	6.5#	-15.2#	-9.6#	7.7#	17.6#	-21.2#	-4.7	4.0*	-6.1	-4.2	-1.5	16.2#
STD ERR OF DP		3.4	2.8	2.4	2.2	1.5	1.4	3.2	0.7	2.0	2.6	2.0	2.3	5.2	4.2	1.7	5.0	6.1	5.8	2.8
P-VALUE	55.3	49.5	56.6	58.6	55.8	63.8	47.4	18.3	61.7	40.1	45.7	62.9	72.8	34.0	50.6	59.3	49.2	51.0	53.7	71.5
STD ERR OF P	1.5	3.9	3.3	2.8	2.2	2.3	1.8	3.0	1.4	2.7	3.0	2.3	2.2	5.1	4.4	2.2	5.3	6.3	6.2	2.7

RESPONSE: 20 TEXT: All points but 75 correctly plotted

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	16.9	-2.5	0.6	0.5	1.1	0.4	-0.3	-8.1#	1.0#	-5.1	-3.6	1.2	0.9	-5.2	-4.3*	1.7	-1.1	-2.8	1.2	3.6
STD ERR OF DP		1.7	1.5	1.3	1.6	0.9	0.8	1.8	0.3	3.5	2.6	1.3	0.8	2.8	1.9	1.0	2.1	2.8	2.4	2.3
STD ERR OF P	0.9	1.8	2.2	1.5	1.8	1.4	1.1	2.0	0.9	3.6	2.6	1.6	1.3	2.8	1.9	1.2	2.4	2.9	2.7	2.5
AGE: 17																				
DELTA-P	18.1	1.4	-1.6	1.0	-0.9	-1.7*	1.7*	3.9	-0.8*	0.6	6.3*	-0.2	-1.8	-0.2	1.1	1.9	-2.4	4.5*	-0.6	-4.8*
STD ERR OF DP		1.6	1.7	1.4	1.3	0.8	0.8	2.1	0.4	3.1	2.9	1.2	1.0	1.7	2.8	1.5	1.9	2.2	2.5	2.1
STD ERR OF P	0.8	1.7	1.9	1.7	1.4	1.1	1.3	2.3	1.0	3.0	2.9	1.3	1.5	1.7	2.9	1.6	2.0	2.2	2.8	2.2
AGE: Ad																				
DELTA-P	18.7	-1.5	1.2	-0.3	0.4	-0.8	0.7	-1.3	-0.4	1.7	1.1	0.5	-3.5	-3.5	1.0	-3.0#	5.2	2.0	5.7	0.1
STD ERR OF DP		2.1	1.8	1.6	2.1	1.2	1.1	2.7	0.5	1.8	2.6	1.5	1.8	2.2	3.7	1.2	3.0	3.4	4.0	2.4
STD ERR OF P	1.1	2.3	2.1	1.8	2.5	1.7	1.5	2.9	1.1	2.2	3.0	1.8	1.7	2.2	4.0	1.5	3.3	3.6	4.4	2.3

RESPONSE: 21 TEXT: Other Unacceptable; i.e., all points correct, but no connections, etc.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	29.9	15.5#	1.4	-7.7#	-6.8#	-4.2#	3.9#	33.9#	-4.8#	16.8*	9.9#	-1.5	-8.0#	17.2#	-1.1	1.1	4.3	4.5	-7.3*	-11.5#
STD ERR OF DP		2.3	2.8	2.4	2.5	1.4	1.3	3.6	0.7	8.1	3.9	1.6	1.6	4.7	6.3	2.1	4.3	4.6	3.2	3.0
STD ERR OF P	1.5	2.4	3.3	3.0	2.7	1.8	2.2	3.5	1.7	8.6	3.7	2.1	2.1	4.8	6.9	2.4	4.5	4.8	3.4	3.1
AGE: 17																				
DELTA-P	15.3	11.5#	-2.5	-1.5	-4.8#	-2.9#	2.9#	35.5#	-5.7#	18.5#	11.7#	0.5	-7.6#	20.8#	6.5	-0.9	-2.9	1.0	-5.7*	-7.5#
STD ERR OF DP		2.4	2.1	2.1	1.8	0.7	0.8	2.7	0.9	4.2	3.1	1.2	1.0	3.9	5.6	2.0	2.3	3.9	2.3	2.0
STD ERR OF P	1.3	2.6	2.3	2.6	2.1	1.3	1.6	2.8	0.8	4.7	3.4	2.0	0.9	4.2	5.8	2.1	2.2	4.3	2.7	1.9

EXERCISE: RH09

A table shows the number of trees planted along a highway in a week. On the diagram, draw a line graph to show the total number of plantings throughout the week.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad TEXT: Other Unacceptable; i.e., all points correct, but no connections, etc.																				
DELTA-P	13.2	6.6*	-1.4	-3.1*	-0.8	-4.0#	4.5#	22.2#	-3.3#	9.5#	4.3	-3.5#	-8.7#	16.8#	2.9	-0.9	-1.6	0.3	-0.3	-9.9#
STD ERR OF DP		2.7	1.6	1.3	1.6	1.1	1.0	3.9	0.5	1.9	2.3	1.4	1.7	4.3	3.8	1.1	3.6	4.0	2.6	1.6
STD ERR OF P	1.0	3.2	1.7	1.3	1.8	1.5	1.4	4.0	1.0	2.5	2.4	1.7	1.7	4.4	4.1	1.3	3.8	4.0	2.8	1.8
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	0.6	0.2	-0.1	-0.2	0.2	-0.1	0.1	0.3	-0.0	-0.6#	1.6	0.1	-0.6#	-0.1	-0.4	0.3	-0.2	-0.3	0.4	-0.3
STD ERR OF DP		0.2	0.4	0.2	0.3	0.2	0.2	0.5	0.1	0.2	0.9	0.3	0.2	0.4	0.2	0.3	0.3	0.3	0.6	0.3
STD ERR OF P	0.2	0.2	0.5	0.3	0.3	0.3	0.2	0.4	0.2	0.0	0.9	0.5	0.3	0.4	0.2	0.4	0.3	0.3	0.6	0.3
AGE: 17																				
DELTA-P	0.8	0.6	-0.4	-0.1	0.0	0.1	-0.1	2.0#	-0.5#	1.0	3.6#	-0.3	-0.8#	0.7	0.0	0.4	-0.7#	-0.7#	-0.4	0.3
STD ERR OF DP		0.5	0.3	0.2	0.4	0.2	0.2	0.8	0.2	0.9	1.2	0.2	0.2	0.7	0.7	0.3	0.2	0.2	0.2	1.0
STD ERR OF P	0.2	0.6	0.2	0.1	0.5	0.2	0.3	0.9	0.1	1.0	1.3	0.2	0.0	0.7	0.7	0.4	0.1	0.1	0.2	1.1
AGE: Ad																				
DELTA-P	4.6	1.3	-1.5	-0.2	0.8	-2.3#	2.1#	10.5#	-1.8#	3.5#	3.7	-2.9#	-1.7#	5.8*	-1.4	0.8	3.3	-3.4#	-1.9	-4.6#
STD ERR OF DP		1.6	0.9	1.0	1.8	0.5	0.5	2.5	0.5	1.1	2.1	0.6	0.7	2.6	1.0	0.8	2.2	1.1	1.6	0.8
STD ERR OF P	0.8	1.8	0.7	1.0	2.3	0.5	1.2	2.9	0.5	1.3	2.6	0.5	0.6	2.6	0.7	1.3	2.6	1.0	1.7	0.0

RI01
OBJ II

If $f(x) = x + 1$, what is the value of $f(2)$?

ANSWER ____________

Report #: RI01

NAEP #: I11002-3

Content Area: I. FUNCTIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		07-25
National P-value:		
	RI01	39.98

Timing: (in seconds)

	Stimulus:	7
	Response:	16
RI01	Exercise total:	23

SCORING GUIDE
RI01
I11002-3

00 = No Response

10 = 3

11 = 2 + 1

20 = 2

21 = Any other numerical response

22 = Other Unacceptable

23 = X + 2

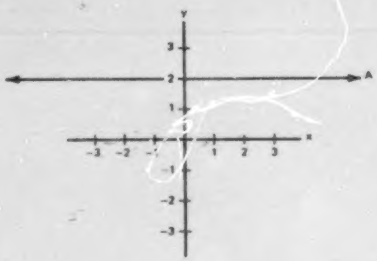
39 = I Don't Know.

EXERCISE: R101

If f(x) = x + 1, what is the value of f(2) ?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	3.9	-0.5	0.7	-1.1	0.9	0.1	-0.1	4.3#	-0.7#	-1.3	0.7	-0.6	-0.7	3.2	-1.1	-0.2	-0.4	4.7	-0.9	-3.1#
STD ERR OF DP		0.7	1.0	0.7	1.2	0.5	0.4	1.5	0.2	1.1	1.5	0.6	0.5	2.1	0.9	0.7	0.9	3.3	1.2	0.7
STD ERR OF P	0.5	0.6	1.1	0.6	1.6	0.6	0.8	1.7	0.5	1.2	1.5	0.6	0.5	2.2	0.8	0.8	0.8	3.6	1.2	0.5
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	40.0	-4.8	-3.8	-0.8	8.2#	4.1#	-3.5#	-19.0#	4.3#	-20.2#	-13.6#	-1.8	9.9#	-17.0#	-9.2*	-0.1	6.3	0.5	-2.1	17.5#
STD ERR OF DP		2.8	2.3	2.5	2.1	1.6	1.4	2.4	0.7	2.5	2.5	2.0	1.6	2.7	3.8	1.9	3.4	5.8	3.8	3.9
P-VALUE	40.0	35.2	36.2	39.2	48.2	44.1	36.5	21.0	44.3	19.8	26.4	38.2	49.9	23.0	30.8	39.9	46.3	40.5	37.9	57.5
STD ERR OF P	1.4	3.1	2.7	3.2	2.2	2.1	2.0	2.5	1.5	2.6	2.9	2.4	2.0	2.2	4.2	2.2	3.9	6.2	3.9	4.0
RESPONSE: 10 AGE: 17	TEXT: 3																			
DELTA-P	33.2	-3.9	-3.3	-1.3	7.6#	4.6#	-3.9#	-17.9#	3.9#	-21.4#	-12.8#	-2.7	10.7#	-19.8#	-11.1#	0.4	7.1*	0.6	-0.1	16.2#
STD ERR OF DP		2.8	2.2	2.6	2.1	1.6	1.4	2.0	0.7	2.4	2.7	1.7	1.4	2.2	3.4	1.9	3.2	5.1	3.7	4.2
STD ERR OF P	1.4	3.1	2.4	3.2	2.2	2.1	1.9	2.0	1.5	2.3	2.9	2.0	1.9	1.5	3.4	2.4	3.8	5.4	3.7	4.3
RESPONSE: 11 AGE: 17	TEXT: 2 + 1																			
DELTA-P	6.8	-0.9	-0.5	0.5	0.6	-0.5	0.4	-1.0	0.4	1.2	-0.7	0.9	-0.8	2.8	1.9	-0.5	-0.8	-0.2	-2.0	1.3
STD ERR OF DP		1.4	1.0	1.0	0.9	0.6	0.5	1.3	0.2	1.4	1.8	0.3	0.6	1.8	1.5	0.8	1.5	1.4	1.2	1.4
STD ERR OF P	0.6	1.7	1.1	1.3	1.0	0.9	0.9	1.3	0.7	1.6	1.8	1.1	0.8	1.9	1.7	1.0	1.6	1.4	1.3	1.5
RESPONSE: 20 AGE: 17	TEXT: 2																			
DELTA-P	5.0	-1.2	3.0*	-0.5	-1.4	0.8	-0.7	-1.5	-0.2	2.6	-0.6	0.4	-0.5	-1.9	4.2	0.7	-0.7	-2.0	-1.6	0.2
STD ERR OF DP		0.7	1.5	0.8	0.8	0.5	0.5	0.9	0.4	4.1	1.1	0.9	0.7	1.0	3.3	0.7	1.2	1.1	1.2	1.6
STD ERR OF P	0.6	0.5	1.9	0.8	0.7	0.9	0.6	0.8	0.5	4.5	1.0	0.9	0.7	0.9	3.7	0.6	1.1	1.0	1.3	1.7
RESPONSE: 21 AGE: 17	TEXT: Any other numerical response																			
DELTA-P	8.0	1.2	-0.2	1.9	-2.7#	-0.9	0.8	0.1	0.1	-3.1*	0.9	0.1	0.8	0.4	-1.8	-0.1	-0.5	-1.7	3.2	-0.6
STD ERR OF DP		1.4	1.5	1.3	1.0	0.7	0.6	1.4	0.3	1.4	1.4	1.2	0.8	1.7	1.6	1.0	2.0	1.7	2.1	2.5
STD ERR OF P	0.7	1.6	1.8	1.7	0.8	0.8	1.1	1.5	0.8	1.3	1.5	1.4	1.2	1.7	1.6	1.1	2.2	1.9	2.4	2.7
RESPONSE: 22 AGE: 17	TEXT: Other Unacceptable																			
DELTA-P	12.1	-0.9	2.0	0.0	-1.2	0.9	-0.7	7.1#	-2.0#	1.5	8.3#	-0.3	-1.7	3.2	0.6	0.3	-2.4	3.5	0.7	-4.7#
STD ERR OF DP		1.2	1.3	1.4	1.3	0.9	0.8	2.0	0.5	2.8	2.3	1.2	1.0	2.9	3.5	1.1	1.6	2.6	1.9	1.8
STD ERR OF P	0.8	1.2	1.5	1.8	1.5	1.3	1.0	2.4	0.8	2.7	2.6	1.6	1.1	3.1	3.7	1.4	1.7	2.7	1.9	1.8
RESPONSE: 23 AGE: 17	TEXT: x + 2																			
DELTA-P	7.0	3.3	-0.8	-1.4	-0.4	-0.8	0.7	4.1#	-0.6*	5.9	-1.8	-0.4	-0.8	1.8	3.7	0.4	-1.9	-1.3	0.5	-3.5#
STD ERR OF DP		1.7	0.9	0.9	1.1	0.7	0.6	1.5	0.3	3.9	1.3	0.9	0.7	1.6	3.3	0.8	1.1	1.6	1.7	1.3
STD ERR OF P	0.6	2.0	0.9	0.9	1.3	0.8	1.0	1.6	0.7	4.2	1.2	1.1	0.9	1.6	3.7	0.9	1.0	1.5	1.8	1.4
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	24.0	3.0	-0.9	2.0	-3.5	-4.1#	3.5#	4.9	-0.9*	14.7#	6.1*	2.3	-7.0#	10.4#	3.6	-1.0	-0.4	-3.7	0.2	-5.0*
STD ERR OF DP		2.1	1.6	1.6	1.9	0.9	0.8	2.6	0.5	3.4	2.5	1.7	1.3	3.6	3.2	1.5	2.7	3.7	2.4	2.7
STD ERR OF P	1.0	2.4	1.8	1.9	2.2	1.2	1.4	2.7	1.1	3.6	2.8	1.9	1.7	3.9	3.5	1.8	2.9	3.8	2.6	2.7

RI02
OBJ III



What is the equation of line A?

ANSWER ____________________

Report #: RI02

NAEP #: I23001-3

Content Area: I. FUNCTIONS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age: 17
Package-Exercise: 06-18
National P-value:
RI02 21.06

Timing: (in seconds)
Stimulus: 2
Response: 30
RI02 Exercise total: 32

SCORING GUIDE
RI02
I23001-3

00 = No Response

10 = Y = 2; Y - 2 = 0

20 = Y = -2; Y + 2 = 0

21 = 2; A = 2

22 = X = 2; X - 2 = 0; X - 2

23 = Coordinates of point(s) on line: 0, 2; 2, 2

24 = Other Unacceptable

39 = I Don't Know.

EXERCISE: BI02

What is the equation of line A?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	1.9	0.7	0.8	-0.4	-0.9	-0.0	0.0	4.0*	-0.6#	0.4	0.7	0.9	-1.7#	6.0#	-0.3	-1.5#	1.4	0.9	-0.1	-1.3
STD ERR OF DP		0.7	0.7	0.5	0.6	0.5	0.5	1.9	0.2	0.9	1.3	0.6	0.4	1.7	0.8	0.5	1.2	1.2	1.0	0.9
STD ERR OF P	0.4	0.9	0.8	0.6	0.6	0.6	0.6	1.9	0.4	0.9	1.4	0.8	0.4	1.7	0.8	0.5	1.3	1.2	1.2	1.0
RESPONSE: 10* AGE: 17	TEXT: Y = 2; Y - 2 = 0																			
DELTA-P	21.1	-9.0#	-2.1	1.5	7.4#	2.3	-2.1	-13.7#	2.6#	-13.8#	-14.5#	-3.3*	10.0#	-10.8#	-9.0#	-0.4	2.7	-0.2	-1.9	14.2#
STD ERR OF DP		1.8	1.7	1.8	2.1	1.3	1.2	1.9	0.5	1.5	1.9	1.4	1.2	2.0	2.8	1.8	3.1	4.3	2.3	3.7
P-VALUE	21.1	12.0	19.0	22.5	28.5	23.3	19.0	7.3	23.6	7.2	6.5	17.8	31.1	10.2	12.1	20.7	23.7	20.9	19.2	35.3
STD ERR OF P	1.1	1.8	1.9	2.2	2.5	1.4	1.8	1.9	1.2	1.7	1.6	1.6	1.7	1.6	2.8	1.9	3.2	4.3	2.5	4.1
RESPONSE: 20 AGE: 17	TEXT: Y = -2; Y + 2 = 0																			
DELTA-P	0.2	-0.0	0.0	-0.1	0.2	0.0	-0.0	-0.1	0.0	0.2	-0.1	0.1	-0.1	-0.2#	0.3	-0.1	0.0	-0.0	0.0	0.2
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.3	0.1	0.2	0.1	0.1	0.3	0.1	0.2	0.2	0.2	0.4
STD ERR OF P	0.1	0.1	0.2	0.1	0.3	0.1	0.1	0.1	0.1	0.3	0.1	0.2	0.1	0.0	0.3	0.1	0.2	0.2	0.2	0.4
RESPONSE: 21 AGE: 17	TEXT: 2; A = 2																			
DELTA-P	7.7	-1.3	0.8	0.5	-0.3	-0.0	0.0	4.7*	-0.9#	2.4	2.7	-0.9	-0.5	3.8	0.9	0.2	0.2	0.4	-4.2#	1.5
STD ERR OF DP		1.2	1.3	1.3	1.6	0.7	0.6	2.2	0.4	1.9	1.9	0.9	0.8	2.2	2.1	1.1	1.7	2.6	1.1	3.2
STD ERR OF P	0.8	1.2	1.4	1.6	1.9	0.9	1.2	2.3	0.9	2.2	2.2	1.0	1.2	2.2	2.1	1.4	1.9	2.7	1.0	3.5
RESPONSE: 22 AGE: 17	TEXT: X = 2; X - 2 = 0; X - 2																			
DELTA-P	2.2	-0.2	-0.5	0.8	-0.2	-0.1	0.1	-1.8#	0.4#	-1.3	-1.0	-0.6	1.1*	-1.5*	0.4	-0.7	0.5	-0.9	1.2	0.9
STD ERR OF DP		0.8	0.7	0.9	0.7	0.4	0.4	0.5	0.1	0.7	0.7	0.5	0.5	0.6	1.5	0.5	1.2	0.8	1.2	1.6
STD ERR OF P	0.5	0.9	0.8	1.1	0.7	0.6	0.6	0.3	0.6	0.7	0.6	0.5	0.8	0.4	1.6	0.5	1.3	0.8	1.4	1.7
RESPONSE: 23 AGE: 17	TEXT: Coordinates of point(s) on line; 0, 2; 2, 2																			
DELTA-P	5.3	-1.0	1.0	-0.0	-0.1	0.6	-0.6	-1.8	-0.0	-2.9#	-1.2	-0.1	0.7	-0.4	-0.9	-0.7	0.3	1.4	0.3	-0.4
STD ERR OF DP		1.2	0.9	0.9	1.0	0.6	0.5	1.3	0.2	1.1	1.1	0.7	0.6	1.6	2.2	0.8	1.6	2.6	1.2	1.2
STD ERR OF P	0.6	1.3	1.0	1.1	1.2	0.8	0.8	1.4	0.6	1.0	1.0	0.9	0.8	1.6	2.4	1.1	1.6	2.8	1.2	1.2
RESPONSE: 24 AGE: 17	TEXT: Other Unacceptable																			
DELTA-P	19.8	0.8	2.0	-1.8	-0.5	0.2	-0.2	1.6	-0.2	-2.5	1.5	2.6	-1.4	-4.5*	1.6	2.3	-4.1	1.6	1.8	-4.0
STD ERR OF DP		2.0	2.4	2.4	2.1	1.1	1.0	3.1	0.5	2.7	3.0	1.3	1.0	2.1	2.8	1.6	2.6	5.1	3.2	4.2
STD ERR OF P	1.3	2.0	2.8	3.1	2.3	1.6	1.7	3.2	1.5	2.5	3.3	2.0	1.7	2.1	2.9	1.7	2.5	5.7	3.6	4.7
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	39.8	10.1#	-2.2	-0.4	-5.6#	-3.0	2.7	7.1*	-1.2*	17.5#	11.8#	1.3	-8.1#	7.7*	5.3	0.8	-1.1	-4.0	2.8	-11.1*
STD ERR OF DP		2.2	2.4	2.2	2.1	1.5	1.5	3.2	0.5	4.0	2.9	1.7	1.4	3.5	3.9	1.9	2.9	5.5	3.2	5.3
STD ERR OF P	1.3	2.5	2.7	2.7	2.3	1.9	2.1	3.5	1.4	4.1	2.9	2.1	2.0	3.3	4.0	1.9	2.8	5.9	3.5	6.0

RJ01
OBJ V

In three tosses of a fair coin, heads turned up twice and tails turned up once.

What is the probability that heads will turn up on the fourth toss?

ANSWER ______________________

SCORING GUIDE
RJ01
J10007-234

00 = No Response

10 = 1/2; 50-50; .5; 1:2; 50%; 1 out of 2

20 = 1/3; .3; 1:3; 1 out of 3

21 = 2 to 1; 2:1

22 = 4 to 1; 4:1

23 = 2 to 3

24 = Other Unacceptable

39 = I Don't Know.

Report #: RJ01

NAEP #: J10007-234

Content Area: J. PROBABILITY AND STATISTICS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		06-11	08-12	01-09
National P-value:	RJ01	15.16	27.40	35.63
Timing: (in seconds)				
	Stimulus:	11	10	11
	Response:	27	26	*
RJ01	Exercise total:	38	36	*

*Time not limited by paced tape.

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                          NATION |              REGION               |      SEX       |      RACE      |        PARENTAL EDUCATION        |             SIZE-AND-TYPE OF COMMUNITY
                                 | SOUTH                      NORTH  |                |                |          SOME    GRAD    POST    |   LOW  EXTREME  SMALL  MEDIUM   MAIN   URBAN   HIGH
                                 |  EAST    WEST  CENTRAL     EAST   |  MALE  FEMALE  |  BLACK  WHITE  | NO HS    HS      HS      HS      | METRO   RURAL  PLACES   CITY  BIG CTY FRINGE  METRO
                         --------|-----------------------------------|----------------|----------------|----------------------------------|--------------------------------------------------------

EXERCISE: 0J01

In three tosses of a fair coin, heads turned up twice and tails turned up once.  What is the probability that heads will turn up on the fourth toss?


RESPONSE:  00    AGE: 13        TEXT:  No Response.

    DELTA-P                 3.0    -1.0    1.0    0.2   -0.5     0.3   -0.2     5.2#  -1.2#    0.0    1.6   -0.0   -1.2*    1.8    3.7   -1.9#  -0.2    3.0    1.4   -2.3#
    STD ERR OF DP                   0.8    1.2    0.9    0.8     0.5    0.4     1.9    0.4     1.7    1.4    0.8    0.6     1.8    2.5    0.6    1.3    1.7    1.7    0.9
    STD ERR OF P            0.5     0.8    1.4    1.1    0.7     0.7    0.7     2.2    0.3     1.9    1.6    0.8    0.5     1.8    2.8    0.5    1.4    1.9    1.9    0.3

                 AGE: 17

    DELTA-P                 2.8    -0.5    2.1   -0.1   -1.4    -0.3    0.3     2.4   -0.8#    0.8    2.6*  -0.3   -1.1#    2.3   -1.0   -1.3   -0.6   -0.8    5.8   -1.1
    STD ERR OF DP                   1.0    2.2    0.9    0.8     0.4    0.3     1.5    0.3     1.6    1.3    0.5    0.4     1.5    1.1    0.8    1.2    0.9    5.4    0.9
    STD ERR OF P            0.8     0.9    2.8    0.7    0.6     0.8    0.9     1.5    0.7     1.9    1.6    1.0    0.7     1.4    1.0    0.6    1.1    0.6    6.0    0.7

                 AGE: Ad

    DELTA-P                 0.7    -0.5   -0.0    0.1    0.4     0.3   -0.2    -0.2   -0.1     0.5   -0.0   -0.6#   0.3     1.1    0.5   -0.2   -0.1    0.6   -0.7#  -0.2
    STD ERR OF DP                   0.3    0.4    0.4    0.4     0.2    0.2     0.5    0.1     0.4    0.5    0.2    0.4     0.9    1.1    0.3    0.6    0.9    0.2    0.5
    STD ERR OF P            0.2     0.2    0.5    0.5    0.4     0.4    0.2     0.5    0.2     0.5    0.6    0.1    0.5     1.0    1.2    0.3    0.6    0.9    0.0    0.5

RESPONSE:  10*   AGE: 13        TEXT:  1/2; 50-50; .5; 1:2; 50%; 1 out of 2

    DELTA-P                15.2     1.3   -1.5   -0.2    0.5     2.8#  -2.6#  -10.7#   1.9#    2.8   -8.9#  -2.4*   6.1#   -5.5*  -6.0#   1.3    2.6    0.7   -5.4*   6.6*
    STD ERR OF DP                   2.3    2.2    1.8    1.8     0.8    0.8     1.4    0.3     5.2    2.2    1.2    1.1     2.6    2.3    1.7    4.3    2.2    2.2    3.3
    P-VALUE                15.2    16.5   13.7   15.0   15.7    18.0   12.6     4.4   17.1    18.0    6.3   12.7   21.3     9.6    9.2   16.4   17.9   15.9    9.8   21.8
    STD ERR OF P            1.2     2.8    2.7    2.0    1.9     1.6    1.3     1.4    1.3     5.6    1.8    3.5    1.9     2.7    2.0    2.1    5.0    2.0    2.2    3.5

                 AGE: 17

    DELTA-P                27.4    -3.9   -4.0    1.7    5.4#    4.3#  -3.9#  -15.0#   2.9#   -3.9  -10.8#   1.1    4.2#   -8.0#  -3.0    3.4*  -3.0   -5.3    2.4    4.0
    STD ERR OF DP                   2.4    2.2    2.0    1.8     1.2    1.1     1.5    0.5     3.3    2.4    1.4    1.4     2.7    3.6    1.6    3.3    2.9    3.1    3.9
    P-VALUE                27.4    23.5   23.4   29.1   32.8    31.7   23.5    12.4   30.3    23.5   16.6   28.5   31.6    19.4   24.4   30.8   24.9   22.2   29.8   31.4
    STD ERR OF P            1.2     2.7    2.6    2.4    1.9     1.8    1.5     1.5    1.3     3.4    2.6    1.9    1.9     2.7    3.7    1.9    3.7    2.9    3.2    4.4

                 AGE: Ad

    DELTA-P                35.6    -5.8*   2.5    1.7    0.4    11.7# -10.9#  -23.5#   3.9#   -9.3#  -3.1    3.1   10.2#  -13.7#   3.0    0.2   -3.8   -1.4    2.9    9.1#
    STD ERR OF DP                   2.6    2.8    2.1    1.9     1.4    1.3     3.2    0.5     1.8    3.2    1.9    1.8     3.8    4.8    1.7    3.3    4.5    4.6    3.5
    P-VALUE                35.6    29.8   38.1   37.3   36.1    47.3   24.8    12.1   39.5    26.4   32.6   38.9   45.8    21.9   38.6   35.9   31.9   34.2   38.5   44.7
    STD ERR OF P            1.4     2.9    3.5    2.4    1.9     2.3    1.4     3.1    1.5     2.4    3.2    2.3    2.3     3.5    5.0    2.1    3.5    4.8    5.0    3.9

RESPONSE:  20    AGE: 13        TEXT:  1/3; .3; 1:3; 1 out of 3

    DELTA-P                 1.0     0.4    0.2   -0.1   -0.5     0.2   -0.2    -0.5    0.1*   -1.0#  -1.0#   0.1    0.1     0.7   -0.5   -0.1    0.4   -1.0#   0.5   -0.1
    STD ERR OF DP                   0.5    0.5    0.4    0.3     0.2    0.2     0.4    0.1     0.3    0.3    0.3    0.3     1.1    0.6    0.3    0.8    0.3    0.8    0.5
    STD ERR OF P            0.3     0.6    0.5    0.6    0.3     0.4    0.3     0.4    0.3     0.0    0.0    0.4    0.4     1.2    0.6    0.3    0.9    0.0    0.9    0.5

                 AGE: 17

    DELTA-P                 1.4    -0.1    0.2    0.1   -0.1     0.0    0.0     1.3   -0.3    -0.1   -0.4    0.4   -0.6     0.9   -0.2   -0.1    0.1    1.2   -0.3   -1.0*
    STD ERR OF DP                   0.4    0.5    0.4    0.5     0.3    0.3     1.2    0.2     0.9    0.6    0.4    0.3     1.1    0.7    0.4    0.5    1.8    0.6    0.4
    STD ERR OF P            0.3     0.5    0.5    0.5    0.6     0.4    0.4     1.3    0.3     0.8    0.7    0.5    0.3     1.2    0.8    0.4    0.7    1.9    0.6    0.4

                 AGE: Ad

    DELTA-P                 2.2    -0.1    1.3   -0.2   -1.1    -0.3    0.3     0.1    0.1     0.9    1.1   -0.6   -0.6     1.6   -1.2    0.4   -0.1   -0.3    0.0   -1.2
    STD ERR OF DP                   1.0    1.0    0.6    0.6     0.5    0.4     1.2    0.2     0.8    1.0    0.5    0.8     1.4    0.8    0.6    0.8    1.6    1.1    0.8
    STD ERR OF P            0.4     1.2    1.2    0.5    0.5     0.7    0.6     1.2    0.5     1.1    1.0    0.5    0.9     1.4    0.6    0.7    0.9    1.6    1.1    0.7

RESPONSE:  21    AGE: 13        TEXT:  2 to 1; 2:1

    DELTA-P                12.5    -5.4#  -3.0#   3.8#   3.7#    1.9*  -1.8*   -9.8#   1.7#   -7.1#  -1.0    1.2    3.0#   -5.5*   1.0   -1.4   -1.0   -2.2    6.1#   4.3*
    STD ERR OF DP                   1.4    1.0    1.4    1.4     0.8    0.8     1.2    0.3     2.0    2.2    1.1    0.9     2.5    3.0    1.2    1.5    2.1    2.2    1.8
    STD ERR OF P            0.8     1.6    0.9    1.8    1.7     1.2    1.1     1.0    1.0     2.1    2.4    1.5    1.2     2.4    3.2    1.4    1.7    2.2    2.5    1.9

                 AGE: 17

    DELTA-P                20.8    -2.5    1.9    0.8   -0.5     0.8   -0.7    -4.5    1.3#   -9.7#   0.2   -0.6    3.4#   -7.5#  -2.4    0.1    1.0    1.7   -3.7    7.9*
    STD ERR OF DP                   2.1    2.2    1.7    1.7     0.9    0.8     2.6    0.5     2.6    2.6    1.5    1.3     2.4    3.1    1.3    4.1    3.4    3.4    3.4
    STD ERR OF P            1.1     2.3    2.7    2.0    1.8     1.3    1.5     2.8    1.3     2.5    3.1    1.8    1.8     2.4    3.2    1.3    4.7    3.7    3.4    3.5
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                                  NATION |             REGION             |      SEX       |      RACE       |    PARENTAL EDUCATION       |            SIZE-AND-TYPE OF COMMUNITY
                                         | SOUTH                  NORTH   |                |                 |         SOME   GRAD   POST |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN  HIGH
                                  -------|  EAST  WEST  CENTRAL   EAST    |  MALE  FEMALE  |  BLACK  WHITE   | NO HS   HS     HS     HS   | METRO  RURAL PLACES  CITY BIG CTY FRINGE METRO

EXERCISE: BJ01

In three tosses of a fair coin, heads turned up twice and tails turned up once.  What is the probability that heads will turn up on the fourth toss?

RESPONSE:  21    AGE: Ad      TEXT:  2 to 1; 2:1
    DELTA-P                   13.1     -1.2   -0.3   -0.8    2.3      0.6   -0.6     -5.1*   0.9#    -2.1   -0.3    2.7   -0.3     2.0   -2.3    0.4   -0.9   -1.7    2.7   -1.7
    STD ERR OF DP                       1.8    1.4    1.4    1.7      1.0    0.9      2.2    0.3      1.5    1.7    1.5    1.4     3.3    2.0    1.0    1.8    3.1    3.1    2.4
    STD ERR OF P               0.9      2.0    1.6    1.6    2.0      1.4    1.2      2.2    1.0      1.7    1.9    1.8    1.7     3.5    2.2    1.2    1.6    3.2    3.4    2.6

RESPONSE:  22    AGE: 13      TEXT:  4 to 1; 4:1
    DELTA-P                    1.1     -0.2   -0.5   -0.1    0.8*     0.1   -0.1     -0.1    0.1     -1.1#  -0.5   -0.1    0.8*   -0.5   -1.1#   0.8   -0.5   -1.1#   0.4   -0.0
    STD ERR OF DP                       0.5    0.4    0.4    0.4      0.2    0.2      0.6    0.1      0.3    0.5    0.4    0.4     0.5    0.3    0.4    0.4    0.3    0.9    0.6
    STD ERR OF P               0.2      0.5    0.5    0.6    0.4      0.4    0.3      0.7    0.3      0.0    0.5    0.4    0.6     0.5    0.0    0.7    0.4    0.0    0.8    0.6

                 AGE: 17
    DELTA-P                    0.7      0.5    0.0   -0.4   -0.0      0.1   -0.0     -0.4    0.1*    -0.5    0.9   -0.1   -0.1    -0.6#  -0.4    0.3    0.5   -0.7#   0.5   -0.4
    STD ERR OF DP                       0.4    0.3    0.2    0.3      0.2    0.2      0.3    0.1      0.3    0.7    0.3    0.2     0.2    0.4    0.3    0.5    0.2    0.7    0.3
    STD ERR OF P               0.2      0.5    0.4    0.2    0.3      0.3    0.2      0.2    0.2      0.2    0.8    0.3    0.3     0.1    0.4    0.3    0.6    0.0    0.7    0.3

                 AGE: Ad
    DELTA-P                    0.9      0.3   -0.0   -0.4    0.2      0.0   -0.0      0.3    0.0     -0.1   -0.2    0.3   -0.1     0.0    0.1   -0.7#   0.3    0.8    0.3    1.1
    STD ERR OF DP                       0.5    0.3    0.3    0.4      0.2    0.2      0.8    0.1      0.4    0.5    0.4    0.4     0.7    0.7    0.2    0.8    1.1    0.8    0.7
    STD ERR OF P               0.2      0.6    0.4    0.3    0.5      0.3    0.3      0.8    0.2      0.4    0.5    0.4    0.4     0.7    0.7    0.1    0.9    1.2    0.8    0.8

RESPONSE:  23    AGE: 13      TEXT:  2 to 3
    DELTA-P                    2.3     -0.6   -0.4    1.0   -0.3     -0.2    0.2     -0.7    0.2*    -1.7#  -0.8   -0.2    0.8*   -1.7#  -0.5    0.0   -0.7    0.0    0.1    1.9
    STD ERR OF DP                       0.5    0.5    0.6    0.7      0.3    0.3      0.7    0.1      0.5    1.0    0.4    0.4     0.7    0.8    0.5    0.7    0.7    0.8    1.2
    STD ERR OF P               0.4      0.5    0.5    0.8    0.8      0.5    0.5      0.7    0.4      0.5    1.0    0.6    0.6     0.6    0.8    0.6    0.7    0.7    0.9    1.4

                 AGE: 17
    DELTA-P                    2.5     -0.6    0.1    0.6   -0.3     -0.3    0.3     -2.4#   0.5#    -0.4   -2.1#   0.5    0.5    -1.9#  -0.5   -0.7    0.8    2.0   -0.5    1.7
    STD ERR OF DP                       0.7    0.7    0.7    0.8      0.3    0.3      0.4    0.1      1.2    0.5    0.7    0.5     0.6    1.1    0.5    1.1    2.6    0.9    1.3
    STD ERR OF P               0.4      0.7    0.8    0.9    0.9      0.5    0.6      0.1    0.5      1.2    0.2    1.0    0.7     0.5    1.1    0.5    1.3    2.8    0.7    1.4

                 AGE: Ad
    DELTA-P                    1.8      0.3    0.1    0.1   -0.6     -0.5    0.4     -1.4#   0.3#     0.1    0.8    0.3   -0.7    -1.8#  -0.2    0.6    0.9   -1.8#   0.4   -0.4
    STD ERR OF DP                       0.9    0.5    0.5    0.6      0.3    0.3      0.5    0.1      0.6    0.8    0.5    0.4     0.3    0.8    0.5    1.2    0.3    1.0    0.8
    STD ERR OF P               0.[illegible]      1.0    0.5    0.6    0.6      0.4    0.5      0.4    0.4      0.7    1.0    0.6    0.4     0.0    0.7    0.6    1.4    0.0    1.0    0.8

RESPONSE:  24    AGE: 13      TEXT:  Other Unacceptable
    DELTA-P                   42.6      2.5   -0.3   -2.2    0.6     -0.1    0.1      7.5#  -1.3#     5.6    4.7   -0.6   -3.2*    2.1   -1.9    0.8    2.4   -0.3    0.3   -4.2
    STD FRR OF DP                       1.8    2.6    2.4    2.4      1.5    1.4      2.4    0.5      4.6    4.0    1.6    1.4     5.0    5.8    1.9    4.5    3.3    3.9    3.5
    STD ERR OF P               1.4      1.5    3.1    3.0    2.8      1.9    2.1      2.5    1.5      4.8    3.9    1.7    2.2     5.3    6.0    2.0    5.2    3.1    4.2    3.7

                 AGE: 17
    DELTA-P                   30.1      4.5   -1.6   -0.8   -1.5     -0.9    0.8     12.8#  -1.9#     7.4    4.9    0.3   -3.8#    9.8*   4.2   -2.1   -1.0    3.8   -4.7   -3.0
    STD ERR OF DP                       2.6    2.1    1.8    2.1      1.2    1.1      2.8    0.5      5.1    3.5    1.4    1.3     4.3    3.9    1.6    2.5    3.9    3.3    2.5
    STD ERR OF P               1.2      3.1    2.4    2.0    2.4      1.8    1.5      3.2    1.3      5.5    3.9    1.8    1.5     4.6    4.2    2.1    2.6    4.1    3.3    2.7

                 AGE: Ad
    DELTA-P                   29.4      3.2   -0.9   -2.1    0.8     -3.7*   3.4*    11.1#  -1.8#     3.0    0.2    0.3   -3.2     3.1    2.5   -2.5    2.5    3.5    1.0   -1.7
    STD ERR OF DP                       2.1    2.2    2.1    2.0      1.5    1.4      3.9    0.5      1.8    2.5    1.9    1.7     4.1    4.6    1.5    3.4    5.6    4.0    3.1
    STD ERR OF P               1.2      2.2    2.7    2.6    2.1      1.9    2.0      4.0    1.4      2.3    2.6    2.4    2.0     4.2    4.7    1.9    3.5    6.0    4.2    3.2

RESPONSE:  39    AGE: 13      TEXT:  I Don't Know.
    DELTA-P                   22.3      3.1    4.5*  -2.6   -4.4*    -5.0#   4.6#     9.1#  -1.6#     2.4    5.9    2.0   -6.3#    8.7    5.2    0.6   -0.9    0.9   -3.8   -6.2#
    STD ERR OF DP                       2.0    2.2    1.7    1.9      1.3    1.2      2.6    0.5      3.7    3.3    1.5    1.2     4.6    4.7    1.6    3.5    4.1    3.2    2.2
    STD ERR OF P               1.1      2.1    2.7    2.0    2.1      1.4    1.9      2.7    1.2      3.9    3.3    1.7    1.6     4.7    5.0    1.6    3.8    4.[illegible]    3.5    2.3
```

EXERCISE: BJ01

In three tosses of a fair coin, heads turned up twice and tails turned up once. What is the probability that heads will turn up on the fourth toss?

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

		REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	14.3	2.8	1.1	-1.9	-1.5	-3.6#	3.3#	5.7*	-1.8#	6.4*	4.7*	-1.1	-2.6*	5.0	3.3	0.2	2.2	-2.0	0.5	-3.2#
STD ERR OF DP		2.0	1.4	1.5	1.9	0.9	0.8	2.4	0.5	2.9	2.2	1.1	1.1	2.6	3.0	1.3	2.6	2.7	2.4	1.2
STD ERR OF P	1.0	2.4	1.4	1.7	2.3	1.1	1.4	2.8	1.0	2.9	2.6	1.5	1.4	2.7	3.2	1.8	2.9	2.7	2.4	0.9

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	16.3	3.9	-2.7	1.6	-2.5	-8.2#	7.6#	18.6#	-3.4#	7.0#	1.4	-5.9#	-5.5#	7.7*	-2.5	1.9	1.2	0.1	-6.6#	-4.3*
STD ERR OF DP		2.1	1.9	1.7	2.0	0.9	0.9	3.6	0.6	1.8	2.6	1.2	1.5	3.6	2.6	1.3	4.0	4.1	2.5	2.0
STD ERR OF P	1.1	2.3	2.2	2.0	2.3	1.1	1.6	4.0	0.9	2.2	2.9	1.3	1.6	3.8	2.6	1.7	4.3	4.3	2.5	2.0

RJ02
OBJ IV

Three friends agree to change the order in which they go through the lunch line each day. In how many different ways can they arrange themselves?

ANSWER ____________________

Report #: RJ02

NAEP #: J11001-234

Content Area: J. PROBABILITY AND STATISTICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		03-11	02-19	06-12
National P-value:	RJ02	30.00	47.28	23.08
Timing: (in seconds)				
	Stimulus:	9	9	9
	Response:	89	90	*
RJ02	Exercise total:	98	99	*

*Time not limited by paced tape.

SCORING GUIDE
RJ02
J11001-234

00 = No Response

10 = 6

20 = 3

21 = 9

22 = 5

23 = Other Unacceptable

39 = I Don't Know.

EXERCISE: RJ02

Three friends agree to change the order in which they go through the lunch line each day. In how many different ways can they arrange themselves?

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.2	0.9	-0.1	-0.6	-0.0	0.5	-0.5	3.2#	-0.6#	0.8	1.5	-0.5	-0.8#	3.3	0.7	-0.5	-0.7	1.4	-0.7	-1.2#
STD ERR OF DP		0.6	0.4	0.3	0.4	0.3	0.2	1.1	0.2	1.3	1.3	0.3	0.2	1.7	1.0	0.3	0.4	0.9	0.5	0.3
STD ERR OF P	0.2	0.7	0.5	0.3	0.5	0.4	0.3	1.3	0.2	1.4	1.4	0.3	0.2	1.8	1.1	0.3	0.4	1.0	0.5	0.0
AGE: 17																				
DELTA-P	1.2	1.8	-1.2*	-0.1	-0.3	0.5	-0.4	3.1	-0.6#	-0.4	1.7	-0.7*	-0.2	0.6	0.2	-0.9	-1.2*	10.4	-0.8	-1.2*
STD ERR OF DP		1.9	0.5	0.6	0.6	0.4	0.4	1.6	0.2	0.9	2.1	0.3	0.4	0.9	1.0	0.5	0.5	7.5	0.9	0.5
STD ERR OF P	0.5	2.4	0.0	0.5	0.4	1.0	0.2	2.1	0.4	0.8	2.6	0.3	0.3	0.9	0.9	0.2	0.0	8.0	0.4	0.0
AGE: Ad																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	0.1	-0.0	0.4	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.4	-0.0
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
STD ERR OF P	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
RESPONSE: 10* AGE: 13 TEXT: 6																				
DELTA-P	30.0	-6.6#	0.1	1.7	3.9	-5.1#	4.7#	-21.2#	4.3#	-6.2	-15.1#	-2.5	9.0#	-19.3#	-5.4	0.6	6.4*	-7.9*	4.0	10.7#
STD ERR OF DP		2.4	2.0	2.6	2.4	1.1	1.0	1.8	0.7	3.6	2.8	1.7	1.3	2.7	3.9	1.9	3.1	3.4	3.0	3.7
P-VALUE	30.0	23.4	30.1	31.7	33.9	24.9	34.7	8.8	34.3	23.8	14.9	27.5	39.0	10.7	24.6	30.6	36.4	22.1	34.0	40.7
STD ERR OF P	1.4	2.6	2.0	3.2	2.8	1.8	1.7	1.5	1.5	3.6	2.8	1.9	2.1	2.5	4.1	2.3	3.1	3.6	2.9	4.0
AGE: 17																				
DELTA-P	47.3	-6.1	-0.0	0.8	4.0	-4.1#	3.6#	-20.9#	4.9#	-20.1#	-5.9	-3.5	11.5#	-12.0#	-8.0*	-0.5	-0.8	-15.6	8.8	16.7*
STD ERR OF DP		3.3	3.3	2.9	4.5	1.5	1.3	3.3	0.8	4.0	3.7	1.8	1.5	3.8	3.5	2.5	4.6	7.9	5.3	6.8
P-VALUE	47.3	41.1	47.2	48.1	51.3	43.1	50.9	26.4	52.1	27.2	41.4	43.8	58.8	35.3	39.3	46.8	46.5	31.7	56.1	64.0
STD ERR OF P	2.1	3.3	3.5	3.0	5.9	2.5	2.5	3.5	2.3	4.1	4.2	2.7	2.4	4.0	3.2	3.0	4.8	8.2	5.7	7.5
AGE: Ad																				
DELTA-P	23.1	-0.3	0.3	-0.6	0.6	2.4*	-2.2*	-9.4#	2.1#	-9.5#	-9.0#	2.0	14.1#	-12.9#	-5.7#	0.1	2.9	3.6	-4.8	10.9#
STD ERR OF DP		2.3	2.3	1.5	1.9	1.1	1.0	2.4	0.5	1.8	1.8	1.8	2.5	2.4	2.3	1.4	3.2	4.6	2.6	2.9
P-VALUE	23.1	22.8	23.4	22.5	23.7	25.5	20.9	13.7	25.2	13.6	14.1	25.1	37.2	10.2	17.4	23.2	25.9	26.7	18.3	34.0
STD ERR OF P	1.1	2.6	2.8	1.5	2.2	1.7	1.4	2.6	1.3	1.9	1.7	1.9	3.1	2.4	2.1	1.9	3.5	5.1	2.6	3.1
RESPONSE: 20 AGE: 13 TEXT: 3																				
DELTA-P	23.5	2.6	1.3	0.2	-3.9	0.0	-0.0	3.8	-1.5	-4.9	5.7	2.8	-5.0#	8.8	5.1	1.9	-6.3*	3.1	-1.8	-8.9#
STD ERR OF DP		2.7	3.1	2.7	2.3	0.9	0.9	2.8	0.8	3.8	3.4	1.6	1.4	8.9	4.0	1.9	2.9	2.7	3.1	3.0
STD ERR OF P	1.6	2.9	3.8	3.2	2.9	1.8	1.8	3.2	1.5	4.1	4.2	2.2	1.9	9.6	4.3	2.3	3.1	2.8	3.1	3.0
AGE: 17																				
DELTA-P	12.8	6.3#	-0.7	-0.5	-3.7*	-1.2	1.0	11.7#	-2.5#	22.1#	2.1	0.9	-6.5#	6.1	0.7	2.3	-2.1	-1.2	-3.1	-7.4#
STD ERR OF DP		2.1	1.6	2.4	1.5	1.2	1.0	2.7	0.6	6.2	2.4	1.3	1.2	3.3	2.9	1.6	2.4	2.9	2.5	2.3
STD ERR OF P	1.2	2.3	1.4	3.3	1.4	1.9	1.2	3.0	1.3	6.9	2.7	1.5	0.9	3.6	2.9	2.2	2.3	2.9	2.7	2.2
AGE: Ad																				
DELTA-P	21.8	5.3#	-4.7*	2.8	-2.7	-5.5#	5.1#	11.0#	-1.5#	8.7#	7.1#	-4.5#	-11.0#	3.9	5.2	1.9	1.7	-0.2	-0.6	-11.5#
STD ERR OF DP		1.9	2.0	1.5	1.9	1.1	1.0	3.3	0.5	1.6	2.8	1.3	1.6	3.8	3.9	1.5	3.0	5.3	3.0	2.3
STD ERR OF P	1.1	2.1	2.4	1.5	2.3	1.6	1.3	3.5	1.2	2.0	2.9	1.6	1.4	3.8	4.2	1.6	3.1	5.8	3.1	2.2
RESPONSE: 21 AGE: 13 TEXT: 9																				
DELTA-P	18.4	-2.8	1.5	0.1	0.9	3.3#	-3.1#	-10.0#	2.0#	-6.0	-0.3	-0.1	4.0#	-5.4	-4.7	-0.1	1.1	0.3	-1.1	6.5
STD ERR OF DP		2.0	1.8	1.9	1.8	1.1	1.0	1.7	0.4	4.0	3.1	1.6	1.1	4.0	2.5	1.6	2.6	3.9	2.4	3.5
STD ERR OF P	1.1	2.3	2.0	2.4	2.0	1.4	1.6	1.8	1.1	4.1	3.2	2.2	1.4	4.3	2.4	1.9	2.6	4.4	2.3	3.8
AGE: 17																				
DELTA-P	19.4	-2.2	-0.9	2.2	0.2	4.5#	-3.9#	-4.4*	0.8	-3.5	-3.7	1.7	-0.1	1.1	3.2	-0.3	-0.9	-5.5*	0.3	1.3
STD ERR OF DP		2.3	2.1	1.8	2.4	1.0	0.9	2.0	0.5	4.2	2.6	1.4	1.2	2.4	3.4	1.8	3.3	2.3	3.5	4.5
STD ERR OF P	1.2	2.5	2.4	2.0	3.0	1.8	1.2	2.1	1.4	4.3	2.7	1.9	1.8	2.5	3.5	2.1	3.3	2.1	3.9	4.8

EXERCISE: BJ02

Three friends agree to change the order in which they go through the lunch line each day. In how many different ways can they arrange themselves?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad TEXT: 9																				
DELTA-P	34.3	-7.1#	5.3#	0.9	-0.5	2.1	-1.9	-16.4#	2.0#	-6.7#	2.2	2.9	4.4	-0.3	-2.3	0.3	-6.7	-1.0	5.6	1.9
STD ERR OF DP		2.1	1.9	2.0	2.0	1.2	1.1	3.0	0.5	1.9	3.1	1.3	2.5	3.8	3.0	1.6	3.4	3.3	3.1	3.6
STD ERR OF P	1.2	2.3	2.2	2.5	2.3	1.9	1.3	3.1	1.3	2.3	3.0	2.3	2.6	3.8	3.1	1.9	3.5	4.4	3.1	4.0
RESPONSE: 22 AGE: 13 TEXT: 5																				
DELTA-P	5.2	0.4	-0.8	-0.7	1.3	-0.1	0.1	1.1	-0.1	1.7	2.6	0.3	-1.4*	0.1	-0.3	0.0	-0.4	1.6	0.3	-1.2
STD ERR OF DP		0.9	0.7	0.9	0.8	0.5	0.4	1.3	0.2	2.1	1.9	0.7	0.6	1.2	2.3	0.7	1.1	2.0	1.1	0.9
STD ERR OF P	0.5	1.0	0.7	1.2	0.9	0.6	0.7	1.4	0.5	2.1	1.9	0.9	0.7	1.1	2.4	0.8	1.2	2.2	1.1	1.0
AGE: 17																				
DELTA-P	6.8	-0.2	0.5	-0.2	-0.1	0.3	-0.2	1.3	-0.6	1.8	0.1	2.2*	-1.8#	0.8	3.1	0.1	-1.2	3.7	-1.4	-2.4
STD ERR OF DP		1.2	1.2	1.0	1.3	0.7	0.6	1.6	0.4	1.9	1.3	1.1	0.6	1.8	2.3	0.9	1.2	4.2	1.5	1.8
STD ERR OF P	0.7	1.3	1.3	1.1	1.7	1.0	0.9	1.7	0.7	1.9	2.2	1.2	0.8	2.0	2.4	1.1	1.1	4.3	1.6	1.9
AGE: Ad																				
DELTA-P	3.3	1.0	-0.2	-0.5	-0.0	-0.1	0.1	2.7	-0.2	0.5	0.5	1.3	-2.0#	-0.4	0.4	-0.1	2.2	0.2	0.2	-1.8*
STD ERR OF DP		0.8	0.8	0.8	0.8	0.5	0.5	2.0	0.3	0.8	1.5	0.8	0.6	1.1	1.4	0.6	1.7	2.0	1.3	0.8
STD ERR OF P	0.5	0.8	1.0	0.9	0.9	0.8	0.5	2.1	0.5	0.9	1.7	1.0	0.5	1.1	1.4	0.7	1.9	2.1	1.3	0.7
RESPONSE: 23 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	16.9	2.7	-1.3	0.1	-1.2	0.6	-0.5	13.7#	-2.0#	2.0	2.3	1.8	-3.0#	5.9	2.1	-2.9*	0.6	-0.2	3.5	-1.0
STD ERR OF DP		1.7	2.0	1.7	1.7	0.9	0.8	2.6	0.6	3.2	2.2	1.2	1.1	5.4	3.2	1.3	1.8	2.6	3.7	2.3
STD ERR OF P	1.0	1.8	2.4	1.9	2.0	1.3	1.4	2.9	1.1	3.2	2.3	1.8	1.3	5.7	3.4	1.4	1.8	2.8	4.1	2.3
AGE: 17																				
DELTA-P	10.3	0.1	1.9	-1.7	0.1	-0.5	0.4	7.0#	-1.4#	-0.6	4.7#	-0.5	-1.6	2.2	-0.5	-0.5	6.9	6.6	-3.1	-6.5#
STD ERR OF DP		1.4	1.9	1.1	1.5	0.8	0.7	2.2	0.5	2.2	1.8	1.3	0.9	1.9	1.3	1.1	3.8	4.9	1.7	1.3
STD ERR OF P	0.8	1.4	2.3	1.0	1.9	1.2	1.0	2.4	0.9	2.3	2.0	1.5	1.1	1.9	1.1	1.2	4.2	5.1	1.7	1.2
AGE: Ad																				
DELTA-P	12.2	-1.6	-0.7	0.0	2.0	1.3	-1.3	1.6	-0.3	1.8	-2.8	1.2	-2.0	4.3	0.0	-1.2	-0.3	-2.2	-1.7	3.6
STD ERR OF DP		1.7	1.3	1.9	1.6	0.8	0.8	2.9	0.4	1.7	1.8	1.4	1.5	2.5	3.5	1.1	2.1	4.2	2.2	2.7
STD ERR OF P	1.0	1.8	1.3	2.5	1.7	1.4	1.2	3.1	1.0	2.2	1.8	1.7	1.7	2.7	3.5	1.0	2.3	4.7	2.5	3.0
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	4.9	2.9*	-0.6	-0.9	-0.9	0.8	-0.7	9.5#	-2.2#	12.6#	3.3	-1.8#	-2.9#	6.7*	2.6	0.8	-0.8	1.6	-4.2#	-4.9#
STD ERR OF DP		1.2	1.1	0.9	1.4	0.4	0.4	1.6	0.4	3.3	1.8	0.6	0.5	2.8	2.1	0.8	1.4	1.6	0.8	0.6
STD ERR OF P	0.6	1.1	1.3	0.9	1.7	0.8	0.7	1.9	0.5	3.6	2.0	0.6	0.6	2.9	2.3	1.2	1.4	1.7	0.4	0.0
AGE: 17																				
DELTA-P	2.1	0.4	0.5	-0.5	-0.2	0.6	-0.5	2.3	-0.7#	0.7	1.1	-0.1	-1.3#	1.2	1.2	-0.3	-0.8	1.6	-0.6	-0.5
STD ERR OF DP		0.8	0.5	0.5	0.5	0.4	0.3	1.3	0.2	1.4	0.9	0.4	0.3	1.1	1.7	0.4	0.6	1.4	0.6	1.2
STD ERR OF P	0.3	1.0	0.4	0.5	0.6	0.6	0.4	1.4	0.3	1.5	0.9	0.4	0.3	1.1	1.8	0.5	0.7	1.4	0.5	1.3
AGE: Ad																				
DELTA-P	5.2	2.8*	-0.1	-2.5#	0.7	-0.3	0.3	10.1#	-2.1#	5.2#	2.1	-3.0#	-3.5#	5.4*	2.4	-1.0	0.3	-0.4	1.0	-3.0#
STD ERR OF DP		1.3	1.1	0.8	1.1	0.7	0.6	2.4	0.5	1.2	2.2	0.8	0.9	2.4	2.8	0.9	2.3	1.9	2.9	1.0
STD ERR OF P	0.6	1.5	1.3	0.7	1.4	1.0	0.7	2.6	0.5	1.6	2.5	0.6	0.7	2.5	2.9	0.8	2.5	2.0	3.2	0.8

RJ03
OBJ V

There are five black buttons and one red button in a jar. If you pull out one button at random, what is the probability that you will get the red button?

ANSWER ____________________

Report #: RJ03

NAEP #: J12005-2

Content Area: J. PROBABILITY AND STATISTICS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13
Package-Exercise:		05-14
National P-value:		
	RJ03	11.16

Timing: (in seconds)

	Stimulus:	10
	Response:	30
RJ03	Exercise total:	40

SCORING GUIDE
RJ03
J12005-2

00 = No Response

10 = 1/6; 1 out of 6; 16 2/3%

20 = 1/5; 1 out of 5; 20%

21 = 1, 100%

22 = Other Unacceptable; e.g., 5 out of 1; 6 out of 1

23 = 6 to 1

24 = 5 to 1

39 = I Don't Know.

EXERCISE: BJ03

There are five black buttons and one red button in a jar. If you pull out one button at random, what is the probability that you will get the red button?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	2.0	0.5	0.1	-0.4	-0.1	-0.3	0.3	3.4#	-0.8#	2.5	2.0	-0.4	-1.2#	4.7#	1.1	-0.7	-0.8	-0.1	-0.2	-1.1
STD ERR OF DP		0.5	0.7	0.5	0.5	0.3	0.3	0.8	0.2	1.6	1.0	0.4	0.3	1.4	1.1	0.4	0.6	0.7	0.8	0.6
STD ERR OF P	0.3	0.5	0.9	0.6	0.5	0.4	0.5	0.9	0.3	1.6	1.1	0.4	0.2	1.5	1.2	0.4	0.6	0.7	0.9	0.6
RESPONSE: 10* AGE: 13	TEXT: 1/6; 1 out of 6; 16 2/3%																			
DELTA-P	11.2	-1.0	-2.6	1.6	1.6	2.3#	-2.4#	-8.4#	1.9#	-7.1#	-4.6#	1.5	3.0#	-4.8*	-0.1	0.8	3.3	-2.4	-0.5	0.7
STD ERR OF DP		1.8	1.7	1.5	1.7	0.9	0.9	1.0	0.3	1.4	1.5	1.2	1.0	1.9	4.4	1.6	2.1	2.0	2.1	3.3
P-VALUE	11.2	10.1	8.6	12.8	12.8	13.5	8.8	2.8	13.1	4.1	6.6	12.7	14.1	6.4	11.0	11.9	14.5	8.8	10.7	11.9
STD ERR OF P	0.9	2.0	2.0	1.8	1.9	1.4	1.2	1.0	1.1	1.4	1.6	1.7	1.4	2.1	4.6	1.8	2.2	2.0	2.3	3.7
RESPONSE: 20 AGE: 13	TEXT: 1/5; 1 out of 5; 20%																			
DELTA-P	15.8	-1.8	-1.0	2.4	-0.4	1.0	-1.0	-11.4#	2.2#	-4.9	-5.9#	0.2	4.2#	-8.3#	-4.9	0.2	0.8	1.4	-1.3	8.9*
STD ERR OF DP		2.0	1.7	1.9	1.8	0.7	0.7	1.3	0.4	2.8	1.9	1.2	1.0	2.4	3.0	1.6	2.2	2.5	2.0	3.6
STD ERR OF P	1.1	2.1	1.8	2.5	2.0	1.1	1.5	1.2	1.2	2.9	2.1	1.6	1.5	2.3	3.0	2.0	2.1	2.7	2.1	4.2
RESPONSE: 21 AGE: 13	TEXT: 1; 100%																			
DELTA-P	0.7	-0.4	-0.2	-0.2	0.8	0.0	-0.0	0.8	-0.1	-0.4	-0.3	0.6	-0.4*	1.9*	-0.2	0.1	-0.4	-0.7#	0.1	-0.3*
STD ERR OF DP		0.3	0.3	0.3	0.5	0.2	0.2	0.5	0.1	0.4	0.5	0.3	0.2	0.8	0.4	0.4	0.3	0.2	0.5	0.4
STD ERR OF P	0.2	0.2	0.4	0.2	0.7	0.3	0.2	0.5	0.3	0.3	0.3	0.5	0.2	0.8	0.4	0.5	0.3	0.0	0.6	0.4
RESPONSE: 22 AGE: 13	TEXT: Other Unacceptable; e.g. 5 out of 1; 6 out of 1																			
DELTA-P	28.8	2.2	-1.5	1.5	-2.4	-1.4	1.4	23.6#	-4.1#	12.9#	6.7*	-0.7	-4.9#	14.5#	5.6	-0.5	0.3	1.6	-1.5	-13.3#
STD ERR OF DP		2.4	1.9	2.1	1.9	1.0	1.0	3.2	0.8	3.9	2.9	1.8	1.4	5.2	6.0	2.1	3.4	3.7	3.2	2.8
STD ERR OF P	1.3	2.6	2.0	3.0	2.0	1.6	1.6	3.5	1.2	4.1	3.2	2.4	1.6	5.4	6.4	2.1	3.7	4.0	3.2	2.7
RESPONSE: 23 AGE: 13	TEXT: 6 to 1																			
DELTA-P	0.6	-0.0	0.3	-0.5#	0.4	0.1	-0.1	-0.6#	0.1*	0.3	-0.4	-0.3	0.5*	-0.1	-0.6#	-0.0	1.2	-0.3	-0.1	-0.2
STD ERR OF DP		0.3	0.4	0.2	0.4	0.2	0.2	0.2	0.1	0.9	0.3	0.2	0.2	0.5	0.2	0.3	0.6	0.4	0.4	0.4
STD ERR OF P	0.2	0.3	0.4	0.1	0.5	0.3	0.2	0.0	0.2	0.9	0.3	0.2	0.4	0.5	0.0	0.3	0.7	0.4	0.4	0.5
RESPONSE: 24 AGE: 13	TEXT: 5 to 1																			
DELTA-P	27.0	-5.9*	3.0	-0.3	2.7	1.3	-1.3	-18.5#	3.4#	-10.3#	-5.0	0.1	5.0#	-14.6#	-3.6	-1.5	0.8	-1.0	5.4	9.4#
STD ERR OF DP		2.6	2.1	2.0	2.2	1.1	1.1	2.2	0.6	3.6	3.1	1.7	1.5	2.9	5.5	1.8	3.8	2.8	2.7	3.2
STD ERR OF P	1.3	2.9	2.4	2.5	2.4	1.7	1.7	2.1	1.3	3.7	3.3	2.1	2.0	2.9	5.8	1.9	4.3	3.1	2.8	3.4
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	13.8	6.5*	1.8	-4.1#	-2.6	-3.1#	3.1#	11.1#	-2.7#	7.1	7.4#	-1.0	-6.1#	6.7	2.9	1.6	-5.1#	1.4	-1.9	-4.2
STD ERR OF DP		2.7	1.4	1.3	1.4	0.8	0.8	2.8	0.5	3.6	2.6	1.1	0.8	3.5	2.7	1.3	1.8	2.8	2.0	2.3
STD ERR OF P	1.0	1.3	1.4	1.3	1.5	1.2	1.3	3.4	0.7	4.1	3.2	1.4	0.9	3.5	3.2	1.9	1.7	2.9	2.0	2.2

RJ04
OBJ V

For four games you have the following chances of gaining points:

Game A: 10 percent chance of gaining 20 points
Game B: 20 percent chance of gaining 15 points
Game C: 40 percent chance of gaining 10 points
Game D: 50 percent chance of gaining 5 points

In the long run, you would be most likely to gain the GREATEST number of points in

○ Game A.
○ Game B.
● Game C.
○ Game D.

○ I don't know.

Report #: RJ04

NAEP #: J12013-34

Content Area: J. PROBABILITY AND STATISTICS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		05-11	03-07
National P-value:			
	RJ04	31.09	38.85
Timing: (in seconds)			
	Stimulus:	34	38
	Response:	60	*
	I don't know:	5	*
	Pause:	5	*
RJ04	Exercise total:	104	*

*Time not limited by paced tape.

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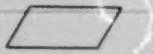
EXERCISE: RK04

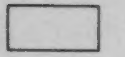
What is the measure in degrees of the angle formed by the hands of the clock when the time is three o'clock?

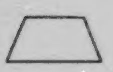
	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: 17 TEXT: 3 o'clock																				
DELTA-P	0.5	1.0	-0.2	-0.1	-0.5*	-0.2	0.2	2.2*	-0.3*	2.2	0.9	-0.1	-0.4*	0.8	1.9	-0.2	0.1	-0.5*	-0.5*	-0.4*
STD ERR OF DP		0.6	0.2	0.3	0.2	0.2	0.2	1.1	0.2	1.3	0.5	0.2	0.2	1.0	1.3	0.2	0.3	0.2	0.2	0.2
STD ERR OF P	0.2	0.7	0.2	0.3	0.0	0.1	0.3	1.2	0.1	1.4	0.7	0.1	0.1	1.1	1.4	0.2	0.4	0.0	0.0	0.1
RESPONSE: 21 AGE: 13 TEXT: 45 degrees; 45																				
DELTA-P	6.4	-2.4*	2.6	0.6	-1.3	2.7*	-2.5*	-4.4*	0.9*	-2.5	-2.3	-1.2	2.7*	-4.5*	-2.3	-0.2	2.9	-1.7	2.8	0.9
STD ERR OF DP		0.9	1.3	1.1	1.0	0.7	0.7	0.8	0.2	1.8	1.3	0.9	0.3	0.9	1.6	0.9	2.1	1.5	2.1	1.9
STD ERR OF P	0.7	0.8	1.7	1.3	1.1	1.2	0.7	0.5	0.9	1.6	2.0	0.9	1.4	0.7	1.6	1.2	2.3	1.5	2.2	2.1
AGE: 17																				
DELTA-P	9.5	0.2	1.5	1.1	-2.6*	1.4*	-1.4*	0.1	-0.0	0.1	0.2	1.6	-1.4*	-1.2	-0.6	-0.9	1.9	2.6	2.8	-4.5*
STD ERR OF DP		1.3	1.5	1.0	1.2	0.6	0.6	1.7	0.3	2.6	1.7	1.0	0.7	2.2	2.0	0.9	1.9	2.2	2.3	1.6
STD ERR OF P	0.7	1.4	1.8	1.1	1.4	0.9	1.0	1.7	0.8	2.6	1.8	1.3	1.0	2.2	2.1	0.9	2.2	2.2	2.5	1.7
RESPONSE: 22 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	20.8	5.9*	-0.0	-0.7	-4.5*	0.1	-0.0	11.4*	-2.2*	15.1*	7.1*	-0.5	-5.2*	13.8*	3.5	0.2	-4.1	1.6	-1.2	-7.9*
STD ERR OF DP		2.0	1.8	2.1	2.0	0.8	0.8	2.8	0.5	4.0	3.1	1.4	1.2	3.9	3.8	1.5	2.2	2.4	3.0	2.6
STD ERR OF P	1.2	2.2	1.9	2.6	2.3	1.4	1.4	2.9	1.2	4.7	3.5	1.6	1.4	4.1	4.2	1.9	2.0	2.3	3.2	2.6
AGE: 17																				
DELTA-P	9.1	3.3*	1.0	0.8	-4.1*	-1.2*	1.3	17.5*	-3.0*	8.6*	9.5*	0.1	-4.7*	11.6*	3.4	-0.0	-1.2	0.4	-3.8*	-4.8*
STD ERR OF DP		1.5	1.4	1.4	1.0	0.6	0.6	2.9	0.6	3.1	2.5	0.7	0.6	3.2	3.7	1.2	1.4	2.7	1.3	1.7
STD ERR OF P	0.8	1.6	1.6	1.7	1.1	1.1	1.0	3.2	0.6	3.4	3.0	1.1	0.6	3.4	3.8	1.2	1.5	2.8	1.3	1.8
RESPONSE: 23 AGE: 13 TEXT: 1/4 of a circle; 1/4 of a turn; 1/4																				
DELTA-P	1.1	1.5	-0.4	-0.2	-0.7	-0.0	0.0	0.3	0.0	0.5	-0.6	0.1	0.2	-0.1	-1.1*	1.0	-0.7	0.2	-0.9*	-0.6
STD ERR OF DP		1.2	0.5	0.5	0.4	0.3	0.2	0.7	0.1	1.0	0.6	0.3	0.3	0.7	0.4	0.7	0.5	0.8	0.4	0.5
STD ERR OF P	0.4	1.6	0.4	0.4	0.3	0.3	0.6	0.6	0.5	0.9	0.5	0.5	0.6	0.6	0.0	1.0	0.4	0.7	0.2	0.4
AGE: 17																				
DELTA-P	0.5	-0.5*	0.3	0.3	-0.2	-0.2	0.2	0.1	-0.1	-0.1	0.2	-0.1	-0.1	0.7	-0.5*	0.1	-0.5*	0.1	0.6	-0.5*
STD ERR OF DP		0.2	0.4	0.3	0.2	0.2	0.2	0.4	0.1	0.4	0.7	0.2	0.2	0.8	0.2	0.2	0.2	0.6	0.6	0.2
STD ERR OF P	0.2	0.0	0.5	0.4	0.2	0.2	0.3	0.5	0.2	0.4	0.7	0.2	0.2	0.8	0.0	0.2	0.0	0.6	0.7	0.0
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	17.4	5.4*	2.4	-3.7*	-3.2	-5.0*	4.6*	7.7*	-1.5*	7.1*	7.9*	1.8	-5.7*	5.3	4.3	0.2	0.0	1.3	0.3	-8.0*
STD ERR OF DP		1.6	2.3	1.7	2.0	1.0	1.0	2.3	0.5	3.2	3.4	1.3	0.8	3.1	2.8	1.3	2.7	4.0	4.3	1.8
STD ERR OF P	1.1	1.5	3.0	1.9	2.3	1.2	1.7	2.4	1.2	3.5	3.5	1.6	1.4	3.0	2.9	1.2	2.9	4.6	4.9	1.6
AGE: 17																				
DELTA-P	6.4	5.9*	0.8	-2.0*	-2.8*	-3.3*	3.4*	10.0*	-1.5*	11.7*	7.2*	-0.0	-3.6*	5.3	-0.1	0.6	2.0	-2.0	-1.7	-4.4*
STD ERR OF DP		1.7	1.1	1.0	0.9	0.6	0.7	2.6	0.4	3.0	2.2	0.8	0.6	2.7	2.9	1.2	1.3	1.8	1.4	1.1
STD ERR OF P	0.7	2.0	1.1	1.2	0.9	0.8	1.1	2.8	0.7	3.2	2.4	1.0	0.6	2.9	3.0	1.4	1.3	1.8	1.5	1.0

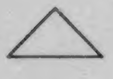
RK05
D&I I

Which one of the following figures is a rectangle?

○ 

● 

○ 

○ 

○ I don't know

Report #: RK05

NAEP #: R20001-1

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions,
Facts, and Symbols.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age: 9
Package-Exercise: 03-14
National P-value:
RK05 74.03

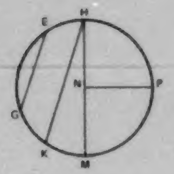
Timing: (in seconds)
Stimulus: 6
Response: 20
I don't know: 5
Pause: 6
RK05 Exercise total: 37

EXERCISE: RE05

Which one of the following figures is a rectangle?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.1	0.1	-0.1*	-0.1*	0.2	-0.0	0.1	0.1	-0.0	-0.1*	-0.1*	-0.1*	-0.1*	0.3	-0.1*	-0.1*	0.2	-0.1*	0.1	-0.1*
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	[illegible]	0.1	0.1	0.4	0.1	0.1	0.3	0.1	0.2	0.1
STD ERR OF P	0.1	0.2	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.0	[illegible]	0.0	0.0	0.4	0.0	0.0	0.3	0.0	0.2	0.0
RESPONSE: 01 AGE: 9 TEXT: (parallelogram)																				
DELTA-P	3.1	1.5*	0.6	-0.9	-1.0	-0.2	0.2	4.6#	-0.9#	-1.2	3.1	0.1	-1.0	5.2#	0.3	0.9	-1.3	-2.0#	-0.6	-2.7#
STD ERR OF DP		0.7	0.6	0.6	0.8	0.4	0.4	1.3	0.3	0.8	2.3	0.7	0.6	1.6	1.2	0.5	0.8	0.7	1.0	0.5
STD ERR OF P	0.4	0.8	0.7	0.7	0.9	0.6	0.5	1.4	0.4	0.8	2.3	0.8	0.7	1.7	1.1	0.7	0.8	0.6	1.0	0.4
RESPONSE: 02* AGE: 9 TEXT: (rectangle)																				
DELTA-P	74.0	-13.2#	5.1*	-0.5	7.5#	-0.3	0.4	-23.5#	4.3#	-10.6*	-1.7	0.4	4.4#	-18.1#	-11.2#	-2.0	-0.3	9.2#	3.2	13.3#
STD ERR OF DP		3.1	2.1	2.1	1.9	1.1	1.1	2.6	0.7	4.3	5.0	2.2	1.3	4.9	3.7	1.9	5.1	2.7	3.8	3.8
P-VALUE	74.0	60.9	79.1	73.5	81.5	73.7	74.4	50.5	78.3	63.4	72.3	74.4	78.5	55.9	62.9	72.1	73.7	83.2	77.2	87.3
STD ERR OF P	1.4	3.6	2.4	2.5	2.0	1.7	1.8	2.8	1.4	4.3	5.2	2.5	2.0	5.1	3.7	2.5	5.6	2.6	3.9	3.9
RESPONSE: 03 AGE: 9 TEXT: (trapezoid)																				
DELTA-P	1.6	0.8	-0.0	-0.4	-0.2	-0.0	0.0	3.3#	-0.7#	-0.5	1.7	0.2	-0.8#	1.8	-0.4	0.3	-0.2	-0.5	0.1	-1.2#
STD ERR OF DP		0.6	0.4	0.3	0.4	0.2	0.2	1.1	0.2	0.9	1.7	0.6	0.3	1.2	1.0	0.4	0.9	0.6	0.7	0.4
STD ERR OF P	0.2	0.7	0.4	0.3	0.5	0.3	0.4	1.2	0.2	0.9	1.8	0.6	0.3	1.3	1.0	0.4	1.0	0.6	0.7	0.4
RESPONSE: 04 AGE: 9 TEXT: (triangle)																				
DELTA-P	20.3	9.5#	-5.2#	2.6	-6.3#	0.4	-0.4	14.4#	-2.5#	12.9#	-2.2	0.2	-2.0	10.4*	12.0#	0.9	0.8	-6.5*	-2.7	-8.9#
STD ERR OF DP		2.4	1.6	1.8	1.7	1.0	1.1	2.4	0.6	4.7	4.3	2.0	1.2	4.6	3.5	1.7	3.9	2.7	3.0	3.2
STD ERR OF P	1.1	2.8	1.7	2.0	2.0	1.5	1.5	2.5	1.3	4.6	4.5	2.3	1.7	4.7	3.6	2.2	4.2	2.8	3.0	3.3
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	0.8	1.4#	-0.4	-0.7#	-0.1	0.2	-0.2	1.1	-0.2	-0.5	-0.8#	-0.8#	-0.6#	0.4	-0.7#	0.0	0.8	-0.1	-0.1	-0.4
STD ERR OF DP		0.6	0.2	0.2	0.3	0.1	0.1	0.7	0.1	0.3	0.2	0.2	0.2	0.7	0.2	0.2	0.7	0.5	0.4	0.4
STD ERR OF P	0.2	0.7	0.2	0.1	0.4	0.3	0.2	0.7	0.2	0.3	0.0	0.1	0.2	0.7	0.1	0.3	0.8	0.5	0.4	0.4

RK06
OBJ I



Which line segment is a DIAMETER?

○ $\overline{EG}$

○ $\overline{HK}$

● $\overline{HM}$

○ $\overline{NP}$

○ I don't know

Report #: RK06

NAEP #: K20005-12

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age:		9	13
Package-Exercise:		02-09	01-25
National P-value:			
	RK06	28.18	68.04

Timing: (in seconds)

	Stimulus:	8	9
	Response:	30	32
	I don't know:	5	5
	Pause:	6	6
RK06	Exercise total:	49	52

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
EXERCISE: RK06																				
Which line segment on the drawing is a DIAMETER?																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.2	0.2	0.1	-0.2	-0.1	0.0	-0.0	0.6	-0.1	-0.2	-0.2	-0.2	0.0	0.1	0.0	-0.2	-0.2	-0.2	0.7	-0.2
STD ERR OF DP		0.3	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.5	0.1
STD ERR OF P	0.1	0.4	0.3	0.0	0.1	0.2	0.1	0.6	0.1	0.0	0.0	0.0	0.1	0.2	0.2	0.0	0.0	0.0	0.6	0.0
AGE: 13																				
DELTA-P	0.5	-0.5	1.1	-0.5	-0.1	-0.1	0.1	2.6	-0.4	-0.5	0.1	-0.2	-0.2	7.9	-0.5	-0.4	-0.5	-0.5	-0.5	-0.5
STD ERR OF DP		0.4	1.2	0.4	0.4	0.2	0.2	2.3	0.4	0.4	0.2	0.1	0.2	5.7	0.4	0.4	0.4	0.4	0.4	0.4
STD ERR OF P	0.4	0.0	1.5	0.0	0.3	0.2	0.6	2.7	0.0	0.0	0.6	0.3	0.2	6.0	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 01 AGE: 9 TEXT: Line segment EG																				
DELTA-P	5.6	2.2	0.5	-0.7	-1.7	0.3	-0.3	5.2*	-1.0*	3.3	1.3	0.6	-0.1	4.1*	1.4	-0.5	-2.2*	-0.0	2.0	-3.5*
STD ERR OF DP		1.3	0.9	0.6	1.0	0.5	0.5	1.6	0.4	2.7	2.2	1.0	0.7	1.7	1.4	0.8	1.1	1.4	2.0	0.8
STD ERR OF P	0.6	1.6	1.0	0.4	1.2	0.8	0.7	1.9	0.6	2.9	2.1	1.2	1.0	1.9	1.5	1.0	1.0	1.6	2.2	0.7
AGE: 13																				
DELTA-P	2.6	2.6*	-0.8	0.2	-1.7*	0.2	-0.2	4.2*	-0.6*	0.7	3.2*	-0.5	-0.7	1.8	0.2	0.4	0.1	1.4	-1.0	-2.3*
STD ERR OF DP		1.2	0.6	0.6	0.5	0.4	0.4	1.5	0.3	1.7	1.5	0.5	0.4	2.1	1.2	0.6	1.3	1.1	0.8	0.5
STD ERR OF P	0.4	1.4	0.7	0.8	0.3	0.6	0.6	1.8	0.4	1.8	1.7	0.5	0.5	2.3	1.3	0.7	1.4	1.3	0.8	0.3
RESPONSE: 02 AGE: 9 TEXT: Line segment HK																				
DELTA-P	13.9	2.2	0.8	-0.2	-2.5	2.6*	-2.5*	-1.1	0.1	3.6	1.4	-0.1	1.6	1.4	2.9	0.8	0.1	0.2	0.3	-6.2*
STD ERR OF DP		2.9	1.7	1.9	1.8	1.1	1.1	2.0	0.5	3.8	4.0	1.6	1.3	2.3	3.1	2.2	2.6	3.2	2.7	2.6
STD ERR OF P	1.2	3.6	1.6	2.2	2.0	2.0	1.2	1.7	1.5	4.6	3.9	1.7	1.9	2.1	3.1	3.0	2.6	3.0	2.9	2.6
AGE: 13																				
DELTA-P	4.9	1.7	0.7	-1.5*	-0.2	0.2	-0.3	4.2*	-0.9*	6.4*	1.4	-0.5	-1.5*	1.8	-2.0	0.4	0.5	0.8	0.6	-2.2*
STD ERR OF DP		1.1	0.8	0.7	0.8	0.6	0.6	1.3	0.3	2.2	1.8	0.8	0.5	2.0	1.3	0.8	0.9	1.2	1.5	1.1
STD ERR OF P	0.5	1.3	0.9	0.8	0.8	0.7	0.8	1.4	0.5	2.5	1.8	0.9	0.7	2.0	1.3	1.0	1.0	1.2	1.7	1.1
RESPONSE: 03* AGE: 9 TEXT: Line segment HM																				
DELTA-P	28.2	-6.3*	4.5*	1.5	0.4	2.6*	-2.5*	-5.6*	1.3*	-1.9	3.1	-2.0	5.3*	-7.6*	-3.3	1.1	0.6	4.1	-4.4	8.5*
STD ERR OF DP		2.1	2.0	2.3	2.2	1.1	1.0	2.7	0.6	4.0	4.5	2.1	1.7	3.5	2.9	2.2	3.8	5.0	3.1	3.8
P-VALUE	28.2	21.8	32.7	29.7	28.6	30.7	25.7	22.6	29.5	26.3	31.3	26.2	33.4	20.6	24.9	29.3	28.8	32.3	23.8	36.7
STD ERR OF P	1.3	2.2	2.1	2.9	2.6	1.9	1.3	2.7	1.5	4.0	4.4	2.5	2.3	3.7	2.5	2.7	3.9	5.2	3.2	4.0
AGE: 13																				
DELTA-P	68.0	-8.7*	-1.1	6.0*	1.0	3.8*	-3.9*	-24.9*	5.3*	-14.6*	-5.1	-0.0	8.3*	-18.1*	-2.1	-0.3	-1.9	-4.6	3.2	13.7*
STD ERR OF DP		2.1	2.3	2.5	2.5	1.3	1.3	2.8	0.8	4.0	3.9	1.8	1.1	3.7	4.3	2.2	3.5	3.5	3.2	3.5
P-VALUE	68.0	59.4	66.9	74.0	69.0	71.8	64.1	43.1	73.4	53.5	63.0	68.0	76.3	49.9	66.0	67.8	66.2	63.5	71.2	81.7
STD ERR OF P	1.4	2.0	2.5	3.2	2.9	1.8	2.0	3.0	1.3	4.2	4.3	2.2	1.5	3.9	4.3	2.4	3.7	3.9	3.2	3.9
RESPONSE: 04 AGE: 9 TEXT: Line segment NP																				
DELTA-P	25.7	-1.2	-2.5	-0.5	3.6	-2.9*	2.8*	-1.0	-0.2	1.7	0.3	4.4*	-1.5	-0.8	-3.1	1.2	1.7	-0.5	-2.8	2.3
STD ERR OF DP		2.3	2.1	2.4	2.8	1.1	1.0	2.4	0.5	3.2	4.9	1.8	1.5	3.1	[illegible]	1.9	3.7	3.7	3.3	6.2
STD ERR OF P	1.4	2.5	2.0	2.8	3.6	1.5	2.0	2.2	1.7	2.9	5.1	2.6	2.3	3.0	3.2	1.9	4.0	3.5	3.6	7.0
AGE: 13																				
DELTA-P	17.1	5.0*	0.1	-4.4*	1.2	-3.1*	3.2*	10.0*	-2.6*	4.1	-0.1	2.1	-3.9*	4.6	5.1	-0.4	1.6	1.0	-2.8	-4.7
STD ERR OF DP		1.9	1.7	1.5	1.6	0.9	1.0	2.5	0.6	7.7	3.2	1.5	1.0	4.4	3.8	1.5	2.5	2.9	2.3	2.8
STD ERR OF P	1.0	2.1	1.9	1.8	1.9	1.2	1.5	2.8	0.9	2.9	3.5	1.7	1.3	4.5	4.1	1.6	2.6	3.3	2.1	3.1
RESPONSE: 05 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	26.5	3.0	-3.5	-0.0	0.2	-2.6*	2.5*	1.8	-0.1	-3.6	-5.9	-2.9	-5.2*	2.9	2.1	-2.4	0.0	-3.6	4.1	-0.9
STD ERR OF DP		2.6	2.6	2.9	3.4	1.1	1.1	2.9	0.6	4.0	4.1	1.9	1.5	3.8	3.9	2.0	3.4	3.2	4.1	5.1
STD ERR OF P	1.7	2.6	2.7	3.5	4.4	2.2	1.9	2.7	2.0	4.2	4.2	2.5	2.5	3.8	4.2	2.1	3.6	3.2	4.9	5.9

EXERCISE: 8K06

Which line segment on the drawing is a DIAMETER?

RESPONSE: 09 AGE: 13 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	6.9	-0.2	0.1	0.2	-0.2	-1.1	1.1	4.0*	-0.8*	3.8	0.4	-1.0	-2.1*	2.1	-0.7	0.3	0.2	1.8	0.6	-4.0*
STD ERR OF DP		1.2	1.1	1.0	1.2	0.6	0.7	1.5	0.3	2.6	2.2	0.8	0.7	2.2	1.3	1.0	1.4	1.6	1.6	1.1
STD ERR OF P	0.7	1.3	1.3	1.2	1.5	0.8	1.0	1.8	0.7	2.9	2.4	0.8	0.8	2.2	1.2	1.3	1.5	1.7	1.8	0.9

RK07
OBJ IV

Robert must choose one of four solid-chocolate candies to buy. Which one of the following shapes will give him the MOST chocolate for his money?

● Cube one inch on a side

○ Sphere one inch in diameter

○ Cylinder one inch in height and one inch in diameter

○ Pyramid one inch in height with a one inch square base

○ I don't know

Report #: RK07

NAEP #: K20021-234

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		08-26	01-12	02-16
National P-value:				
	RK07	28.59	49.53	49.33
Timing: (in seconds)				
	Stimulus:	26	24	27
	Response:	31	30	*
	I don't know:	5	5	*
	Pause:	6	6	*
RK07	Exercise total:	68	65	*

*Time not limited by paced tape.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: RK07

Robert must choose one of four solid-chocolate candies to buy. Which one of the following shapes will give him the MOST chocolate for his money?

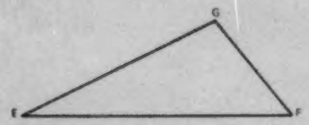
	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 96 AGE: 13 TEXT: No Response.																				
DELTA-P	1.1	-1.0	[illegible]	-1.1	-0.8	-0.1	0.2	-0.1	-0.5	1.6	-1.1	0.2	-0.4	12.4	-1.1	-1.0	-0.9	-0.7	-1.1	-1.1
STD ERR OF DP		1.0	2.9	1.0	1.0	0.1	0.1	0.3	0.4	1.7	1.0	0.3	0.3	11.3	1.0	1.0	1.0	1.0	1.0	1.0
STD ERR OF P	1.0	0.1	3.9	0.0	0.2	0.9	1.1	0.8	0.6	2.6	0.0	1.3	0.7	12.2	0.0	0.1	0.1	0.4	0.0	0.0
AGE: 17																				
DELTA-P	0.1	-0.1*	-0.0	0.0	0.1	0.1	-0.1	0.8*	-0.1*	-0.1*	-0.1*	-0.1*	-0.1	0.5	-0.1*	-0.1	-0.1*	0.1	0.1	-0.1*
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.2	0.2	0.1
STD ERR OF P	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.3	[illegible]	0.0
AGE: Ad																				
DELTA-P	0.2	0.8	-0.2	-0.2	-0.2	0.2	-0.2	-0.2	0.0	-0.2	-0.2	0.5	-0.2	[illegible]	-0.2	-0.2	-0.2	-0.2	1.7	-0.2
STD ERR OF DP		0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	1.6	0.2
STD ERR OF P	0.2	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
RESPONSE: 01* AGE: 13 TEXT: Cube one inch on a side																				
DELTA-P	28.6	-5.3#	-2.7	3.2	4.9	-0.2	0.2	-17.6#	4.0#	-14.5#	-11.4#	0.3	8.5#	-18.0#	0.3	-1.6	0.2	1.5	1.3	13.3#
STD ERR OF DP		1.8	2.2	2.3	2.6	1.2	1.2	1.9	0.6	3.2	3.1	1.7	1.2	2.5	3.3	2.1	1.9	3.4	3.3	2.6
P-VALUE	28.6	23.3	25.9	31.8	33.5	28.4	28.8	11.0	32.6	14.1	17.2	28.9	37.1	10.6	28.9	27.0	28.8	30.1	29.9	41.9
STD ERR OF P	1.3	1.8	2.6	2.8	3.0	1.7	1.8	1.5	1.6	3.2	3.5	2.0	1.9	2.5	3.1	2.8	1.6	3.6	3.7	2.8
AGE: 17																				
DELTA-P	49.5	-9.5#	1.5	8.0#	-1.8	6.7#	-6.4#	-22.4#	4.3#	-19.1#	-5.2	1.4	5.5#	-17.4#	-5.4	-1.4	10.5#	-4.9	-0.6	12.5#
STD ERR OF DP		2.1	2.6	2.5	2.9	1.2	1.1	2.6	0.6	4.5	3.4	1.6	1.4	3.6	5.0	1.9	3.4	5.7	4.8	2.5
P-VALUE	49.5	40.1	51.0	57.6	47.7	56.2	43.1	27.1	53.8	30.5	44.3	50.9	55.0	32.1	44.2	48.1	60.1	44.8	48.9	62.0
STD ERR OF P	1.6	1.9	3.0	2.9	3.7	1.8	2.1	2.6	1.7	4.8	3.5	2.0	2.3	3.8	5.0	2.0	3.3	6.0	5.7	2.5
AGE: Ad																				
DELTA-P	48.3	-6.7*	0.5	2.9	2.0	6.7#	-6.2#	-29.1#	4.6#	-12.5#	-2.2	2.5	14.2#	-16.3#	-8.9#	2.0	-3.4	0.2	0.3	13.2#
STD ERR OF DP		3.3	3.0	3.0	2.5	1.3	1.2	4.6	0.7	2.1	3.3	2.2	2.2	4.0	3.2	2.0	3.5	4.1	4.6	2.9
P-VALUE	48.3	41.6	48.8	51.2	50.3	55.0	42.1	19.3	53.0	35.8	46.2	50.8	62.5	32.0	39.4	50.3	44.9	48.5	48.7	61.6
STD ERR OF P	1.7	3.6	3.6	3.8	2.5	2.3	1.9	4.4	1.9	2.7	3.4	3.2	2.2	4.1	3.2	3.0	3.9	4.1	5.0	2.9
RESPONSE: 02 AGE: 13 TEXT: Sphere one inch in diameter																				
DELTA-P	6.8	1.0	0.8	-0.5	-1.4	1.2	-1.2	-2.0#	0.0	0.6	-1.1	-1.9	0.6	0.0	-0.5	-1.6	4.9	-0.8	-2.1	0.8
STD ERR OF DP		1.8	1.2	1.0	1.0	0.7	0.7	1.0	0.3	2.2	1.7	1.0	0.8	2.4	1.5	0.9	2.5	1.4	1.5	1.4
STD ERR OF P	0.7	2.3	1.3	0.9	1.0	1.2	0.8	1.0	0.9	2.2	2.0	0.9	1.3	2.3	1.3	0.8	3.1	1.4	1.4	1.4
AGE: 17																				
DELTA-P	5.9	-0.2	2.1	-1.3	-0.7	-0.6	0.6	-2.3	0.3	-0.5	-0.2	-2.3#	1.7*	-0.1	-3.1	1.5	-3.3#	-1.9	0.9	0.6
STD ERR OF DP		1.4	1.7	1.2	1.1	0.8	0.7	1.2	0.2	1.3	1.3	0.8	0.7	2.4	1.6	1.0	1.0	1.8	1.5	1.9
STD ERR OF P	0.8	1.5	2.2	1.2	1.1	1.2	1.0	1.1	0.9	1.4	1.4	0.8	1.3	2.6	1.4	1.6	0.7	1.8	1.5	2.0
AGE: Ad																				
DELTA-P	4.3	-1.5	1.2	0.6	-0.8	0.9	-0.8	0.7	-0.3	-0.2	-1.8	-0.6	2.6#	-2.2*	-0.2	-0.5	-0.2	3.5	-1.0	1.8
STD ERR OF DP		1.1	1.4	0.9	0.9	0.7	0.6	1.8	0.3	0.7	1.2	0.6	1.0	1.1	1.1	0.7	1.9	2.0	1.5	2.0
STD ERR OF P	0.6	1.2	1.8	1.0	0.9	1.1	0.8	2.1	0.6	0.8	1.3	0.9	1.4	1.0	0.9	0.7	2.1	2.2	1.7	2.8
RESPONSE: 03 AGE: 13 TEXT: Cylinder one inch in height and one inch in diameter																				
DELTA-P	27.0	0.5	-1.5	-1.3	2.5	1.3	-1.4	5.5#	-0.7	-0.4	1.3	[illegible]	-2.8#	-4.5	-1.8	0.8	0.6	3.2	2.8	-5.4*
STD ERR OF DP		1.7	2.5	1.7	1.5	1.1	1.1	2.1	0.5	3.1	3.2	[illegible]	1.0	3.9	2.9	1.7	2.3	3.1	3.5	2.4
STD ERR OF P	1.1	1.8	3.1	1.9	1.5	1.6	1.5	2.3	1.1	1.2	3.1	1.8	1.5	4.1	2.8	1.9	2.3	3.4	4.0	2.4
AGE: 17																				
DELTA-P	23.0	4.0	0.1	-2.9	-0.4	-1.6*	1.6*	4.0	-0.7	7.5	-2.6	0.8	-0.9	5.8	4.9	1.7	-2.3	-3.1	-0.2	-7.0#
STD ERR OF DP		2.1	1.8	1.8	1.9	0.7	0.7	2.6	0.4	4.0	2.3	1.5	1.4	4.1	4.3	1.4	3.2	3.7	3.3	2.1
STD ERR OF P	1.1	2.3	2.1	2.1	2.3	1.4	1.2	2.7	1.2	4.4	2.8	1.9	1.7	4.3	4.4	1.6	3.4	3.9	3.7	2.1

EXERCISE: RK07

Robert must choose one of four solid-chocolate candies to buy. Which one of the following shapes will give him the MOST chocolate for his money?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 03 AGE: Ad TEXT: Cylinder one inch in height and one inch in diameter																				
DELTA-P	20.3	2.9	-0.8	-1.0	-0.5	0.7	-0.7	3.3	-1.1*	4.7*	-0.4	-0.4	-5.1#	3.5	0.6	-1.5	3.9	-3.8	2.5	-1.4
STD ERR OF DP		2.4	1.9	2.6	2.2	1.3	1.2	2.7	0.5	2.1	2.7	1.8	1.7	3.8	3.8	1.7	3.2	3.7	3.1	2.9
STD ERR OF P	1.4	2.5	1.9	3.5	2.3	2.1	1.7	2.9	1.5	2.8	2.7	2.5	1.6	3.8	3.9	2.4	3.4	3.8	3.4	3.0
RESPONSE: 04 AGE: 13 TEXT: Pyramid one inch in height with one inch square base																				
DELTA-P	28.8	3.6	1.5	0.6	-6.2#	-0.5	0.6	10.9#	-2.1#	10.9*	13.9#	-2.5	-4.7#	8.3	1.4	3.5*	-3.6	-2.8	-0.9	-7.5#
STD ERR OF DP		2.5	2.5	1.6	1.9	0.9	1.0	2.6	0.6	4.9	4.6	1.5	1.3	5.4	2.7	1.6	1.9	3.0	3.4	2.5
STD ERR OF P	1.2	3.1	3.1	1.4	1.8	1.6	1.5	2.5	1.5	[illegible]	5.0	1.8	1.5	5.6	2.9	2.1	2.0	3.2	3.7	2.5
AGE: 17																				
DELTA-P	14.7	6.4#	-3.3	-2.7	0.9	-2.6#	2.5#	16.5#	-3.3#	12.1#	7.4#	-0.8	-4.7#	10.6#	3.2	-0.7	-5.7#	7.2#	-1.4	-4.5*
STD ERR OF DP		2.0	1.8	1.4	1.7	0.9	0.9	3.0	0.5	1.3	2.6	1.5	1.0	2.9	3.8	1.2	1.8	2.6	2.2	2.0
STD ERR OF P	1.0	2.3	2.1	1.3	2.1	1.4	1.3	3.1	1.1	3.4	2.9	1.7	1.2	3.1	3.9	1.8	1.6	2.7	2.5	2.1
AGE: Ad																				
DELTA-P	13.2	2.5	-0.2	-2.1	0.5	-2.1#	1.9#	13.4#	-1.6#	4.5#	2.4	0.2	-6.3#	9.0#	6.3	1.2	1.2	-4.3	-5.2#	-7.3#
STD ERR OF DP		1.7	1.6	1.4	1.6	0.8	0.7	3.4	0.4	1.5	2.0	1.3	1.4	2.8	3.9	1.2	2.4	3.0	1.9	1.6
STD ERR OF P	0.9	1.9	1.9	1.7	1.8	1.3	1.0	3.6	1.0	1.6	2.4	1.8	1.2	2.9	4.1	1.7	2.7	3.0	1.6	1.6
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	7.8	1.2	-1.1	-0.9	0.9	-1.7#	1.7#	4.1#	-0.9#	2.3	-1.6	0.3	-1.2	1.8	1.7	-0.1	-1.2	-0.3	-0.1	-0.1
STD ERR OF DP		1.2	1.0	1.0	1.8	0.6	0.7	1.5	0.3	2.9	1.7	1.0	0.9	2.4	2.7	1.2	1.3	1.5	1.7	1.8
STD ERR OF P	0.7	1.3	1.0	1.1	2.3	0.7	1.2	1.7	0.8	3.1	1.6	1.4	1.2	2.5	2.8	1.5	1.3	1.6	1.9	1.9
AGE: 17																				
DELTA-P	6.8	-0.6	-0.4	-1.1	1.9*	-1.9#	1.9#	3.5*	-0.5	0.1	0.8	0.9	-1.4*	0.6	0.5	-1.0	0.9	2.4	1.2	-1.5
STD ERR OF DP		1.1	1.0	0.8	0.9	0.6	0.6	1.6	0.3	1.6	1.8	1.0	0.7	1.8	1.6	0.7	1.7	1.9	1.5	1.2
STD ERR OF P	0.6	1.2	1.3	0.8	1.0	0.7	0.9	1.7	0.6	1.6	1.7	1.1	0.9	1.9	1.6	0.7	1.9	1.8	1.7	1.4
AGE: Ad																				
DELTA-P	13.6	2.0	-0.5	-0.2	-1.0	-6.4#	6.0#	11.9#	-1.6#	3.8#	2.3	-2.2	-5.1#	6.2	2.5	-1.1	-1.3	4.7	1.7	-6.1*
STD ERR OF DP		1.6	1.7	1.5	1.4	0.9	0.8	3.7	0.5	1.4	1.7	1.2	1.3	3.4	2.6	1.1	2.1	3.8	3.1	2.6
STD ERR OF P	0.9	1.7	2.1	1.8	1.5	0.9	1.5	4.0	1.0	1.7	2.0	1.5	1.3	3.6	2.7	1.4	2.2	3.9	3.3	2.7

RK08
OBJ IV



If the measure of angle F is 50° and the measure of angle G is 105°, what is the measure of angle E?

ANSWER ____________________

SCORING GUIDE
RK08
K20036-234

00 = No Response

10 = 25 (must have sign for degrees)

11 = 25 (no sign for degrees)

20 = 90 with or without sign for degrees

21 = 155; 55 with or without sign for degrees

22 = 45; 205 with or without sign for degrees

23 = Other Unacceptable; e.g., acute

39 = I Don't Know.

Report #: RK08

NAEP #: K20036-234

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		01-29	06-08	01-29
National P-value:				
	RK08	15.15	51.58	30.06
Timing: (in seconds)				
	Stimulus:	11	9	10
	Response:	30	31	*
RK08	Exercise total:	41	40	*

*Time not limited by paced tape.

EXERCISE: BK08

If the measure of angle F is 50 degrees and the measure of angle G is 105 degrees, what is the measure of angle H on the given triangle GFH?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.8	-1.0	0.5	0.9	-0.7	0.6	-0.6	2.6	-0.4	-0.7	2.5	-1.1	0.1	9.0	-0.7	-1.3	-0.7	-1.9	0.7	2.0
STD ERR OF DP		0.9	1.3	1.3	0.9	0.4	0.4	2.4	0.4	1.5	1.9	1.7	0.8	5.5	1.0	0.8	1.0	1.0	1.3	3.6
STD ERR OF P	0.7	0.7	1.6	1.7	0.7	0.7	0.9	2.7	0.7	1.8	1.9	0.7	1.2	5.8	0.8	0.6	0.8	0.9	1.2	4.0
AGE: 17																				
DELTA-P	1.6	0.6	0.8	-0.8*	-0.3	-0.1	0.1	2.6	-0.5*	1.0	1.7	-0.3	-0.7*	1.8	0.4	-0.5	-0.7	2.1	0.6	-1.3*
STD ERR OF DP		0.6	0.7	0.4	0.5	0.3	0.3	1.5	0.2	0.7	1.6	0.8	0.3	1.0	0.6	0.8	0.6	1.4	1.1	0.8
STD ERR OF P	0.3	0.7	0.8	0.4	0.5	0.3	0.5	1.6	0.2	0.7	1.7	0.4	0.3	1.1	0.5	0.3	0.6	1.7	1.2	0.3
AGE: Ad																				
DELTA-P	1.1	-0.2	0.9	-0.2	-0.6	0.1	-0.1	-0.3	0.1	0.0	-0.3	0.6	-0.9*	-0.3	2.7	0.0	0.9	-0.4	-1.1*	-1.1*
STD ERR OF DP		0.5	0.8	0.5	0.4	0.3	0.3	0.7	0.1	0.4	0.6	0.5	0.4	0.7	2.7	0.4	0.5	0.8	0.3	0.3
STD ERR OF P	0.3	0.5	1.1	0.5	0.4	0.6	0.3	0.7	0.4	0.5	0.7	0.9	0.3	0.6	3.0	0.5	0.4	0.7	0.0	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	15.2	-8.0*	-7.6*	5.7*	6.8*	1.3	-1.4	-14.0*	3.1*	-9.4*	-1.2	-3.9*	7.0*	-11.5*	-1.3	-5.2*	-2.7	3.9	1.1	16.4*
STD ERR OF DP		1.9	2.1	2.3	2.9	0.9	0.9	1.4	0.5	2.0	3.5	1.4	1.5	2.1	4.3	2.0	3.8	4.9	3.6	4.2
P-VALUE	15.2	7.1	7.6	20.9	21.9	16.5	13.8	1.2	18.3	5.7	14.0	11.4	22.2	3.6	13.8	9.9	12.4	19.0	16.2	31.5
STD ERR OF P	1.4	1.6	2.2	3.1	3.4	1.8	1.6	0.5	1.5	1.6	3.7	1.5	2.6	1.5	4.3	2.0	3.5	5.3	3.0	4.7
AGE: 17																				
DELTA-P	51.5	-14.1*	-4.6*	3.7	11.4*	2.7	-2.5	-26.9*	4.9*	-21.4*	-20.9*	-2.0	13.1*	-18.8*	-3.1	-2.2	0.8	-0.3	1.7	16.9*
STD ERR OF DP		2.9	2.1	2.3	2.7	1.4	1.4	3.6	0.8	3.8	4.2	1.7	1.4	4.7	4.1	2.6	4.1	6.0	3.5	4.4
P-VALUE	51.5	37.5	46.9	55.2	62.9	54.3	49.0	24.7	56.4	30.1	30.7	49.5	64.9	32.7	48.4	49.3	52.4	51.2	53.2	68.5
STD ERR OF P	1.6	3.2	1.8	2.4	3.6	1.7	2.5	3.7	1.7	3.7	4.5	2.3	2.0	4.4	3.9	3.3	4.1	6.3	3.6	4.9
AGE: Ad																				
DELTA-P	30.1	-4.8	-1.1	1.9	3.2	10.2*	-9.5*	-19.1*	3.1*	-13.4*	-7.2*	1.7	20.3*	-11.4*	-6.1	-1.3	-2.9	6.0	-1.4	17.0*
STD ERR OF DP		2.9	2.5	2.6	2.7	1.3	1.2	3.0	0.6	2.2	2.7	1.9	2.5	3.4	4.3	2.1	4.3	5.7	5.0	3.2
P-VALUE	30.1	25.2	28.9	32.0	33.3	40.3	20.5	10.9	33.2	16.6	22.9	31.9	50.4	18.7	24.0	28.8	27.2	36.1	28.7	47.0
STD ERR OF P	1.5	3.3	2.8	3.2	3.1	2.4	1.4	3.0	1.6	2.4	3.0	2.4	2.9	3.3	4.2	2.7	4.4	6.0	5.4	3.5
RESPONSE: 10 AGE: 13	TEXT: 25 (must have sign for degrees)																			
DELTA-P	13.5	-6.9*	-6.3*	5.5*	4.9	0.9	-0.9	-12.4*	2.8*	-7.9*	-2.4	-3.0*	6.5*	-10.7*	-0.1	-5.1*	-1.6	3.6	1.5	13.3*
STD ERR OF DP		1.8	2.1	2.3	2.9	0.8	0.8	1.4	0.5	2.0	3.3	1.8	1.5	1.7	4.2	1.8	3.0	4.9	3.8	4.3
STD ERR OF P	1.4	1.5	2.1	3.0	3.5	1.8	1.5	0.5	1.5	1.6	3.7	1.5	2.6	1.0	4.2	1.6	3.1	5.5	3.6	4.9
AGE: 17																				
DELTA-P	48.2	-13.4*	-4.9*	4.2	10.5*	2.7	-2.5	-28.9*	5.0*	-20.9*	-19.9*	-2.8	13.7*	-20.4*	-2.9	-2.2	0.6	-2.1	3.0	17.3*
STD ERR OF DP		2.7	2.1	2.3	2.9	1.5	1.4	2.9	0.7	3.7	3.9	1.7	1.8	5.0	3.7	2.6	3.6	6.2	3.3	4.7
STD ERR OF P	1.6	2.9	2.0	2.4	3.9	1.7	2.5	2.9	1.7	3.7	4.0	2.4	2.1	4.9	3.4	3.2	3.5	6.5	3.3	5.4
AGE: Ad																				
DELTA-P	27.7	-4.9	-1.5	2.5	2.9	9.6*	-9.0*	-18.1*	3.0*	-12.9*	-7.4*	2.0	19.2*	-10.4*	-9.2*	-0.6	-3.2	5.9	0.0	15.1*
STD ERR OF DP		3.1	2.3	2.5	2.5	1.3	1.2	2.9	0.5	2.1	2.9	1.9	2.5	3.4	4.0	2.1	3.9	5.4	4.9	3.2
STD ERR OF P	1.5	3.6	2.4	3.2	2.8	2.4	1.3	3.0	1.6	2.2	3.0	2.5	2.9	3.4	3.9	2.7	3.9	5.7	5.3	3.6
RESPONSE: 11 AGE: 13	TEXT: 25 (no sign for degrees)																			
DELTA-P	1.6	-1.1*	-1.3*	0.3	1.9*	0.4	-0.5	-1.6*	0.3*	-1.7*	1.3	-0.4	0.5	-0.8	-1.2*	-0.1	-1.1	0.3	-0.5	3.1*
STD ERR OF DP		0.4	0.4	0.5	0.7	0.3	0.3	0.3	0.1	0.3	1.3	0.4	0.4	0.9	0.5	0.5	0.6	0.9	0.5	1.4
STD ERR OF P	0.3	0.4	0.2	0.6	0.9	0.4	0.4	0.1	0.4	0.0	1.3	0.5	0.6	0.9	0.4	0.6	0.5	0.9	0.6	1.6
AGE: 17																				
DELTA-P	3.4	-0.6	0.3	-0.6	0.9	0.1	-0.1	2.0	-0.2	-0.5	-0.9	0.9	-0.4	1.6	-0.2	0.0	0.2	1.9	-1.3	-0.3
STD ERR OF DP		0.7	0.9	0.7	0.7	0.4	0.4	1.5	0.2	1.0	1.0	0.5	0.5	1.6	1.0	0.5	1.1	1.3	0.8	1.0
STD ERR OF P	0.4	0.7	1.0	0.8	0.8	0.6	0.6	1.6	0.5	1.1	0.9	0.7	0.7	1.7	1.1	0.6	1.2	1.3	0.8	1.1

EXERCISE: BK08

If the measure of angle F is 50 degrees and the measure of angle G is 105 degrees, what is the measure of angle H on the given triangle GHF?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 11 AGE: Ad TEXT: 25 (no sign for degrees)																				
DELTA-P	2.3	0.1	0.3	-0.6	0.3	0.6	-0.6	-1.0	0.1	-0.6	0.3	-0.3	1.1	-1.1	3.1	-0.7	0.1	0.2	-1.8*	1.8
STD ERR OF DP		1.0	0.6	0.6	0.7	0.4	0.4	0.8	0.2	0.6	0.8	0.5	0.9	0.8	2.2	0.8	1.2	1.3	0.7	1.3
STD ERR OF P	0.4	1.2	0.7	0.6	0.8	0.7	0.4	0.8	0.5	0.6	0.9	0.6	1.1	0.8	2.4	0.8	1.3	1.2	0.5	1.5
RESPONSE: 20 AGE: 13 TEXT: 90 with or without sign for degrees																				
DELTA-P	1.6	0.3	0.6	-0.7	0.1	0.7*	-0.8	-0.9	0.2	-0.3	0.2	-0.2	0.3	-1.2*	1.3	-0.2	0.6	0.1	-0.5	-0.1
STD ERR OF DP		0.7	0.7	0.4	0.7	0.4	0.4	0.5	0.1	0.8	1.2	0.5	0.4	0.5	1.1	0.5	1.1	0.8	0.7	1.1
STD ERR OF P	0.4	0.9	0.8	0.4	0.9	0.7	0.3	0.5	0.4	0.9	1.3	0.6	0.6	0.4	1.1	0.6	1.2	0.8	0.8	1.1
AGE: 17																				
DELTA-P	1.0	-0.0	-0.1	0.3	-0.3	0.7#	-0.7#	0.6	-0.0	0.4	1.2	0.1	-0.5	-0.2	-0.8*	0.5	0.4	-0.8*	0.4	-1.0#
STD ERR OF DP		0.4	0.4	0.5	0.4	0.3	0.2	0.6	0.1	0.8	1.3	0.4	0.3	0.5	0.3	0.4	0.6	0.3	0.6	0.3
STD ERR OF P	0.3	0.5	0.5	0.7	0.4	0.5	0.1	0.7	0.3	0.9	1.5	0.4	0.2	0.5	0.2	0.6	0.7	0.2	0.7	0.0
AGE: Ad																				
DELTA-P	1.3	-0.1	-0.1	0.2	-0.1	1.1#	-1.1#	-1.1#	-0.1	1.3	-0.1	-0.3	-0.7	-0.2	0.9	0.2	-0.3	0.8	-0.7	-0.7
STD ERR OF DP		0.7	0.5	0.3	0.4	0.3	0.3	0.3	0.2	0.7	0.5	0.4	0.4	0.9	1.7	0.3	0.6	1.1	0.5	0.6
STD ERR OF P	0.3	0.8	0.5	0.3	0.5	0.5	0.2	0.2	0.2	0.8	0.5	0.5	0.3	0.9	1.8	0.4	0.6	1.2	0.5	0.6
RESPONSE: 21 AGE: 13 TEXT: 155; 55 with or without sign for degrees																				
DELTA-P	26.5	6.0#	2.5	-2.7	-4.1	-1.0	1.1	5.6*	-0.9	8.2*	0.1	1.5	-2.7#	2.7	3.8	0.2	3.0	3.6	-0.0	-12.2#
STD ERR OF DP		2.0	1.8	2.0	2.1	1.1	1.1	2.7	0.5	3.7	3.8	1.5	1.0	4.6	4.2	1.7	2.7	2.7	2.4	3.6
STD ERR OF P	1.2	2.1	1.8	2.6	2.4	1.4	1.8	2.7	1.4	3.7	3.9	2.1	1.6	4.6	4.4	1.9	2.8	3.1	2.8	2.5
AGE: 17																				
DELTA-P	9.9	4.9#	0.4	-1.6	-2.6*	-1.1	1.0	4.7*	-1.2#	5.8*	4.5*	0.0	-2.6#	5.8*	1.2	0.0	-1.5	3.1	-0.7	-4.0#
STD ERR OF DP		1.7	1.0	1.2	1.1	0.8	0.8	2.0	0.3	2.7	2.2	0.9	0.8	2.7	2.3	1.1	2.2	3.1	1.8	1.6
STD ERR OF P	0.7	2.0	1.0	1.4	1.2	1.0	1.1	2.0	0.8	2.9	2.5	1.1	1.0	2.6	2.4	1.4	2.4	3.2	1.9	1.6
AGE: Ad																				
DELTA-P	10.0	1.7	-0.1	-1.3	0.2	-2.5#	2.4#	4.2	-0.4	-1.1	4.0#	0.9	-3.5#	2.1	-1.9	-0.1	2.9	-1.6	1.7	-3.1
STD ERR OF DP		1.4	1.2	1.3	1.1	0.8	0.8	2.6	0.4	1.2	1.7	1.1	1.1	2.7	1.8	0.7	2.5	2.7	2.7	2.0
STD ERR OF P	0.7	1.6	1.4	1.7	1.1	1.1	1.1	2.7	0.9	1.3	2.0	1.5	1.2	3.0	1.3	0.8	2.9	2.6	2.9	2.1
RESPONSE: 22 AGE: 13 TEXT: 45; 205 with or without sign for degrees																				
DELTA-P	3.4	-0.2	2.1*	-0.7	-0.8	1.2#	-1.2#	-1.3	0.4*	-0.3	-1.1	1.0	-0.8	1.5	-1.2	-0.2	0.7	-1.3	0.5	0.9
STD ERR OF DP		0.8	1.0	0.7	0.6	0.4	0.4	0.9	0.2	1.4	1.2	0.7	0.4	1.5	1.1	0.6	1.4	1.2	1.2	1.1
STD ERR OF P	0.5	0.9	1.2	0.8	0.6	0.7	0.5	0.8	0.6	1.6	1.2	0.9	0.5	1.7	0.9	0.6	1.5	1.3	1.5	1.1
AGE: 17																				
DELTA-P	4.9	0.9	0.6	-0.4	-0.8	0.7	-0.6	-2.2#	0.4#	0.5	-1.1	0.2	0.3	-1.2	-1.5	2.1#	0.0	-2.4#	-0.3	-2.1*
STD ERR OF DP		1.0	0.9	0.6	0.7	0.5	0.5	0.9	0.2	1.6	1.2	0.7	0.5	1.6	1.4	0.7	0.9	0.9	0.9	1.0
STD ERR OF P	0.4	1.2	1.1	0.7	0.8	0.8	0.6	0.9	0.5	1.7	1.1	0.8	0.7	1.8	1.3	0.8	0.9	1.0	1.0	1.0
AGE: Ad																				
DELTA-P	4.3	-0.2	1.0	-0.2	-0.7	1.9#	-1.7#	0.1	-0.1	0.0	-0.8	0.2	0.3	-0.9	-1.9	0.2	-0.0	0.8	0.7	0.1
STD ERR OF DP		0.9	0.8	0.8	0.7	0.5	0.4	1.6	0.3	0.8	1.0	0.8	0.8	1.3	1.3	0.6	1.4	1.6	1.4	1.2
STD ERR OF P	0.5	1.0	1.0	1.0	0.7	0.8	0.5	1.8	0.5	0.9	1.0	0.9	0.9	1.4	1.4	0.7	1.4	1.7	1.6	1.3
RESPONSE: 23 AGE: 13 TEXT: Other Unacceptable; e.g., acute																				
DELTA-P	35.2	0.7	2.5	-1.5	-1.0	-0.9	1.0	12.5#	-2.9#	4.3	-1.7	2.4	-2.8	3.5	0.6	3.6	0.8	-1.7	-0.4	-9.4#
STD ERR OF DP		2.2	2.4	1.8	2.2	1.2	1.3	2.9	0.7	3.9	4.1	2.1	1.6	4.4	4.6	2.0	2.8	2.7	3.2	3.1
STD ERR OF P	1.2	2.4	2.8	2.2	2.6	1.8	1.8	3.0	1.3	4.1	4.2	2.3	2.2	4.7	4.9	2.4	2.7	2.6	3.6	3.3

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                             NATION |             REGION             |     SEX      |     RACE      |    PARENTAL EDUCATION      |          SIZE-AND-TYPE OF COMMUNITY
                                    | SOUTH                   NORTH  |              |               |          SOME   GRAD  POST |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN  HIGH
                             ______ |_EAST___WEST_CENTRAL__EAST__|__MALE__FEMALE_|_BLACK__WHITE__|_NO HS____HS____HS____HS__|_METRO__RURAL__PLACES__CITY_BIG CITY_FRINGE_METRO

EXERCISE: 8K08

If the measure of angle F is 50 degrees and the measure of angle G is 105 degrees, what is the measure of angle E on the given triangle GEF?

RESPONSE:  23    AGE: 17          TEXT:  Other Unacceptable; e.g., acute

    DELTA-P                  17.6      4.6*   3.0   -1.9   -4.2*     0.6   -0.6     16.1*  -2.8*     3.7*  10.5*   1.5   -6.0*     9.7*   4.2   -0.3    1.0   -2.5   -2.5   -6.5*
    STD ERR OF DP                      1.9    1.7    1.4    1.4      0.9    0.8      2.6    0.6      3.2    2.7    1.4    1.0      3.5    2.3    1.4    2.2    3.3    1.9    2.3
    STD ERR OF P              0.9      2.2    1.9    1.5    1.9      1.4    1.2      2.9    1.0      3.3    3.0    1.7    1.3      3.6    2.3    1.7    2.3    3.5    1.9    2.6

                 AGE: Ad

    DELTA-P                  19.9     -0.4   -1.2   -0.3    2.0      0.7   -0.7      9.7*  -2.0*     4.6*   1.2   -1.1   -4.9*     3.8    1.6   -0.8    1.8   -0.1   -0.8   -2.1
    STD ERR OF DP                      1.8    2.0    1.5    2.7      1.0    0.9      2.7    0.5      1.7    2.4    1.7    1.9      3.3    2.3    1.3    2.9    3.6    3.9    3.3
    STD ERR OF P              1.2      1.8    2.4    1.5    3.4      1.6    1.4      3.0    1.1      3.1    2.3    2.0    2.0      3.3    2.1    1.9    3.3    3.7    4.1    3.5

RESPONSE:  39    AGE: 13          TEXT:  I Don't Know.

    DELTA-P                  14.3      2.2   -0.6   -0.9   -0.3     -1.9    1.9     -4.5*   0.5     -1.7    1.2    0.4   -1.1     -4.0*  -2.5    3.1   -1.6   -2.7   -1.4    2.5
    STD ERR OF DP                      1.9    1.6    1.6    1.9      1.0    1.0      1.8    0.4      2.6    3.2    1.3    1.0      2.0    2.0    1.7    2.4    1.9    2.4    2.7
    STD ERR OF P              1.0      2.2    1.8    1.9    2.3      1.4    1.4      1.8    1.1      2.7    3.3    1.8    1.4      1.7    1.8    2.2    2.6    2.1    2.7    3.0

                 AGE: 17

    DELTA-P                  13.5      3.1   -0.1    0.7   -3.2*    -3.6*   3.3*     5.2   -0.8*     6.6    4.0    0.4   -3.7*     3.0   -0.5    0.4   -2.0    0.8    0.8   -2.2
    STD ERR OF DP                      2.0    1.3    1.6    1.4      0.9    0.9      2.7    0.4      4.0    2.6    1.3    1.0      3.1    4.0    1.3    2.2    3.8    1.7    2.3
    STD ERR OF P              0.9      2.3    1.3    1.9    1.6      1.1    1.5      2.8    1.1      4.3    2.7    1.7    1.2      3.2    4.3    1.6    2.3    4.1    1.7    2.8

                 AGE: Ad

    DELTA-P                  33.2      4.1    0.6   -0.2   -4.0    -11.5*  10.7*     6.5   -0.6      9.7*   2.3   -2.0  -10.7*     7.3    4.7    1.8   -2.3   -5.5    1.7  -10.0*
    STD ERR OF DP                      2.6    2.3    2.3    2.4      1.1    1.1      3.6    0.5      2.6    2.7    2.2    2.8      3.7    4.4    1.9    3.9    4.7    4.6    3.0
    STD ERR OF P              1.4      2.8    2.7    2.8    2.8      1.7    1.9      3.7    1.5      3.1    2.9    2.6    2.6      3.9    4.6    2.2    4.0    5.1    5.1    3.1
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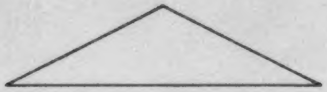
RK09
OBJ I



What is the figure above called?

ANSWER ______________

SCORING GUIDE
RK09
K20041-1

00 = No Response

10 = Triangle

20 = Square; rectangle

21 = Other Unacceptable; e.g., box

39 = I Don't Know.

Report #: RK09

NAEP #: K20041-1

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		04-96
National P-value:		
	RK09	71.60

Timing: (in seconds)

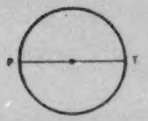
	Stimulus:	2
	Response:	15
RK09	Exercise total:	17

EXERCISE: NK09

What is the figure (triangle) above called?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	3.1	0.8	0.9	-0.7	-0.8	1.1*	-1.0*	3.8*	-1.0*	4.7	-0.7	-0.4	-1.3*	3.9	3.0	-0.5	0.1	1.1	-1.7*	-2.2*
STD ERR OF DP		0.6	0.9	0.7	0.6	0.4	0.4	1.1	0.3	2.5	1.2	0.6	0.5	2.0	2.2	0.7	1.2	1.6	0.7	0.8
STD ERR OF P	0.4	0.6	1.1	0.9	0.5	0.6	0.5	1.2	0.4	2.8	1.2	0.8	0.5	2.0	2.3	0.7	1.3	1.7	0.7	0.6
RESPONSE: 10* AGE: 9	TEXT: Triangle																			
DELTA-P	71.6	-10.0*	0.6	3.2	5.4*	-3.6*	3.5*	-28.5*	7.0*	-16.2*	-9.0	4.0	9.3*	-24.1*	-12.0*	-1.4	4.9	-5.0	9.3*	14.4*
STD ERR OF DP		2.3	2.2	2.3	1.7	1.0	0.9	2.3	0.9	4.1	5.9	2.0	1.4	7.4	4.7	2.1	3.3	4.0	2.6	2.5
P-VALUE	71.6	61.6	72.2	74.8	77.0	68.0	75.1	43.1	78.6	55.4	62.6	75.6	80.9	47.6	59.6	70.2	76.5	66.6	80.9	86.0
STD ERR OF P	1.3	2.5	2.5	3.0	1.7	1.7	1.5	2.5	1.1	4.5	5.9	2.3	1.5	7.5	4.8	2.3	3.4	4.3	2.6	2.3
RESPONSE: 20 AGE: 9	TEXT: Square; rectangle																			
DELTA-P	3.2	0.6	-1.4*	0.1	0.6	-0.4	0.3	-1.0	-0.1	0.6	4.3	0.4	-1.3*	-0.7	0.3	-0.3	-1.0	0.6	2.3*	-0.8
STD ERR OF DP		0.6	0.6	0.7	0.7	0.5	0.5	0.6	0.2	1.6	3.5	0.8	0.6	1.3	1.0	0.6	0.9	1.2	1.1	0.9
STD ERR OF P	0.4	0.6	0.6	0.9	0.8	0.5	0.7	0.6	0.4	1.6	3.6	0.9	0.6	1.4	1.0	0.7	0.9	1.2	1.2	0.9
RESPONSE: 21 AGE: 9	TEXT: Other Unacceptable; e.g., box																			
DELTA-P	8.1	4.5*	-1.3	-0.6	-2.4	1.5*	-1.4*	14.7*	-2.8*	4.3	2.1	0.4	-1.0	9.4	4.8	0.8	-3.4	4.7	-4.8*	-5.6*
STD ERR OF DP		1.6	1.1	1.4	1.3	0.7	0.6	2.3	0.7	3.0	2.6	1.3	0.8	5.0	3.2	1.2	1.9	3.1	1.3	1.1
STD ERR OF P	0.8	1.9	1.0	1.8	1.4	1.2	0.9	2.7	0.6	3.0	2.7	1.6	0.9	5.3	3.3	1.2	1.9	3.4	1.1	0.8
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	13.9	4.1*	1.1	-1.9	-2.8*	1.4	-1.3	11.0*	-3.2*	6.7*	3.3	-4.4*	-5.7*	11.5*	3.9	1.3	-0.7	-1.3	-5.0*	-5.7*
STD ERR OF DP		1.6	1.4	1.4	1.2	0.7	0.7	2.9	0.6	3.1	4.4	1.5	1.0	5.6	2.5	1.1	1.6	2.0	1.8	2.1
STD ERR OF P	0.8	1.8	1.5	1.8	1.2	1.2	1.0	3.3	0.7	3.3	4.5	1.6	1.0	5.9	2.5	1.2	1.6	2.1	1.9	2.1

RK10
OBJ I



What is line segment PT called?

○ Center line
○ Diagonal
● Diameter
○ Radius

○ I don't know.

Report #: RK10

NAEP #: K30002-1

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age: 9
Package-Exercise: 03-04
National P-value:
RK10 17.27

Timing: (in seconds)
Stimulus: 8
Response: 10
I don't know: 5
Pause: 6
RK10 Exercise total: 29

EXERCISE: RK10

What is line segment PT on the circle above called?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.2	0.3	0.0	-0.2	-0.1	-0.1	0.1	0.3	-0.1	0.4	-0.2*	-0.2*	-0.1	-0.2*	-0.0	0.2	0.2	-0.2*	-0.2*	-0.2*
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.6	0.1	0.1	0.1	0.1	0.2	0.1	0.4	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.2	0.1	0.1	0.1	0.2	0.3	0.1	0.6	0.0	0.0	0.1	0.0	0.2	0.2	0.4	0.0	0.0	0.0
RESPONSE: 01 AGE: 9 TEXT: Center line																				
DELTA-P	45.3	5.3	-4.9	-3.2	4.3	-0.5	0.5	-8.7*	1.1*	-8.9	-9.0	3.8	4.1	-11.4*	-3.8	-1.3	1.2	11.6*	0.0	2.6
STD ERR OF DP		3.0	2.9	2.9	3.6	1.3	1.4	2.3	0.5	4.6	5.1	2.2	2.3	3.9	5.2	2.4	4.9	4.4	3.9	4.1
STD ERR OF P	1.8	3.2	3.4	3.3	4.2	2.5	2.0	2.6	2.0	5.2	5.2	2.8	2.7	3.6	5.1	3.4	5.1	4.6	4.1	4.2
RESPONSE: 02 AGE: 9 TEXT: Diagonal																				
DELTA-P	9.5	-0.3	-1.0	0.3	1.1	0.2	-0.2	4.5	-1.0*	-0.7	4.4	-1.6	-0.3	6.5	2.5	-0.5	-0.8	0.3	-1.3	-2.1
STD ERR OF DP		1.3	1.3	1.3	1.3	0.8	0.8	2.2	0.4	2.3	3.6	1.1	1.0	3.7	2.9	0.9	1.5	3.2	2.1	1.7
STD ERR OF P	0.8	1.4	1.5	1.7	1.5	1.2	1.0	2.4	0.9	2.5	3.9	1.2	1.0	3.8	3.2	1.3	1.4	3.4	2.0	1.7
RESPONSE: 03* AGE: 9 TEXT: Diameter																				
DELTA-P	17.3	-7.5*	2.6	0.5	3.7	1.0	-1.1	-3.4	0.6	0.6	0.2	-1.7	2.4	-3.1	-4.0	-0.6	1.3	-4.1*	-1.7	10.0*
STD ERR OF DP		1.6	2.7	2.3	2.9	0.9	1.0	2.1	0.5	4.0	3.9	1.6	1.5	3.4	3.2	1.9	3.3	2.0	2.4	4.9
P-VALUE	17.3	9.8	19.8	17.8	21.0	18.3	16.2	13.9	17.9	17.9	17.4	15.6	19.7	14.2	13.3	16.7	18.6	13.1	15.6	27.3
STD ERR OF P	1.4	0.9	3.3	2.8	3.5	1.7	1.8	2.1	1.7	4.0	4.2	2.0	2.5	3.5	3.1	2.5	3.4	1.8	2.6	5.5
RESPONSE: 04 AGE: 9 TEXT: Radius																				
DELTA-P	8.4	-0.1	2.7	0.2	-3.2*	0.8	-0.8	1.3	-0.2	-0.7	3.3	0.4	0.2	-2.0	-0.6	1.3	1.2	-2.3	1.8	-3.4*
STD ERR OF DP		1.6	2.1	1.5	1.6	0.7	0.7	1.7	0.4	2.5	4.0	1.4	1.1	2.0	2.5	1.4	2.1	1.9	2.3	1.4
STD ERR OF P	1.0	1.6	2.7	1.6	1.7	1.3	1.2	1.7	1.2	2.8	4.1	1.6	1.2	2.0	2.4	2.1	2.2	1.7	2.5	1.3
RESPONSE: 07 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	19.3	2.5	0.7	2.3	-5.8*	-1.4	1.5	6.1*	-0.5	9.3	1.3	-0.8	-6.3*	10.2*	6.0	0.9	-3.2	-5.2	1.4	-6.9*
STD ERR OF DP		2.3	2.1	1.8	2.0	1.0	1.0	2.5	0.5	5.2	4.7	1.9	1.5	4.2	4.0	1.4	2.3	3.1	3.4	2.9
STD ERR OF P	1.2	2.7	2.5	2.0	2.2	1.6	1.5	2.6	1.4	5.6	5.0	2.2	1.6	4.3	4.2	2.0	2.2	3.4	3.3	3.0

RK11
OBJ II

Which one of the following has a shape MOST like an orange?

○ Cone

○ Cube

○ Cylinder

● Sphere

○ I don't know.

Report #: RK11

NAEP #: K30003-1

Content Area: K. GEOMETRY

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age: 9
Package-Exercise: 05-06
National P-value:
RK11 73.78

Timing: (in seconds)
Stimulus: 9
Response: 11
I don't know: 5
Pause: 6
RK11 Exercise total: 31

EXERCISE: BK11

Which one of the following has a shape MOST like an orange?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	0.3	0.1	0.1	-0.3*	0.1	-0.0	0.0	0.6	-0.1	-0.3*	-0.3*	0.3	-0.3*	0.6	0.1	-0.1	-0.2	0.1	-0.3*	-0.1
STD ERR OF DP		0.2	0.3	0.1	0.2	0.1	0.1	0.5	0.1	0.1	0.1	0.2	0.1	0.8	0.4	0.1	0.2	0.2	0.1	0.2
STD ERR OF P	0.1	0.2	0.3	0.0	0.2	0.1	0.1	0.6	0.1	0.0	0.0	0.2	0.0	0.9	0.4	0.1	0.1	0.3	0.0	0.2
RESPONSE: 01 AGE: 9	TEXT: Cone																			
DELTA-P	14.3	3.9*	2.2	-3.1*	-3.1*	0.7	-0.7	3.3	-0.8	1.2	3.3	-1.1	-0.2	6.1*	-1.3	3.3*	-2.9	-3.9	0.2	-5.2*
STD ERR OF DP		1.9	1.9	1.3	1.5	1.0	1.0	2.2	0.5	2.9	4.6	1.4	1.2	2.6	3.1	1.7	2.0	2.2	2.8	2.3
STD ERR OF P	1.0	2.3	2.4	1.2	1.6	1.4	1.4	2.4	1.0	2.7	5.1	1.7	1.5	2.9	2.9	2.1	2.1	2.2	3.1	2.3
RESPONSE: 02 AGE: 9	TEXT: Cube																			
DELTA-P	14.0	-0.7	-1.8	3.1	-0.6	-0.3	0.3	2.3	-0.5	4.3	6.5	1.7	-3.1*	2.5	-0.5	0.5	-0.2	1.4	1.8	-5.3*
STD ERR OF DP		1.4	1.5	2.0	1.4	0.9	0.9	1.8	0.5	3.4	4.8	1.6	1.0	2.6	3.5	1.2	3.1	2.3	3.6	1.5
STD ERR OF P	0.9	1.5	1.7	2.6	1.5	1.1	1.5	1.8	1.1	3.6	4.9	1.7	1.3	2.7	3.6	1.3	3.3	2.5	4.0	1.5
RESPONSE: 03 AGE: 9	TEXT: Cylinder																			
DELTA-P	36.3	0.6	-2.1	0.6	1.0	1.2	-1.2	-0.7	0.3	6.6	-7.1	3.3	1.6	-2.2	3.3	-1.1	2.9	7.2*	-2.7	-5.6
STD ERR OF DP		3.2	2.3	3.2	2.5	1.4	1.4	2.6	0.8	4.4	4.8	2.4	1.8	2.9	6.8	2.0	3.8	2.7	2.9	3.7
STD ERR OF P	1.6	3.8	2.4	3.9	2.5	2.0	2.2	3.1	2.0	4.5	5.0	2.9	2.8	2.8	7.6	2.2	4.5	2.8	2.9	4.2
RESPONSE: 04* AGE: 9	TEXT: Sphere																			
DELTA-P	23.8	-5.8*	0.9	1.6	3.3	1.2	-1.2	-5.7	1.5	-10.2*	-0.1	-1.5	6.7*	-10.0*	-1.1	-1.9	1.2	-2.3	5.5	9.0
STD ERR OF DP		2.6	2.5	3.7	2.8	1.2	1.2	3.5	0.8	3.1	7.5	1.6	1.5	4.3	7.9	2.5	5.1	3.0	5.7	5.4
P-VALUE	23.8	18.0	24.7	25.3	27.1	25.0	22.6	18.1	25.3	13.6	23.7	22.3	30.4	13.8	22.7	21.9	25.0	21.5	29.3	32.8
STD ERR OF P	1.7	2.9	2.5	4.7	3.0	2.2	2.0	3.8	2.0	2.8	7.9	2.2	2.4	4.4	8.1	2.7	5.7	2.9	6.1	6.0
RESPONSE: 09 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	11.3	1.9	0.7	-1.9	-0.8	-2.0*	2.0*	0.1	-0.3	-1.6	-2.4	-2.8	-4.7*	2.9	-0.5	-0.8	-0.9	-2.5	-4.5*	7.2
STD ERR OF DP		1.6	1.7	1.4	2.6	1.0	1.0	1.9	0.5	2.8	2.3	1.5	1.0	2.6	2.6	1.4	2.4	2.2	2.1	8.2
STD ERR OF P	1.0	1.6	1.8	1.3	3.3	1.0	1.8	2.1	1.3	2.9	2.3	1.8	1.2	2.8	2.6	1.3	2.4	2.3	2.0	4.9

RK12
OBJ II

What is the diameter of a circle with a radius of four inches?

ANSWER ____________________

SCORING GUIDE
RK12
K30013-12

00 = No Response

10 = 8; 8 inches

20 = 4; 4 inches

21 = 2; 2 inches

22 = Other Unacceptable

39 = I Don't Know.

Report #: RK12

NAEP #: K30013-12

Content Area: K. GEOMETRY

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		04-04	06-32
National P-value:			
	RK12	4.60	35.96

Timing: (in seconds)

	Stimulus:	4	4
	Response:	26	21
RK12	Exercise total:	30	25

EXERCISE: BK12

What is the diameter of a circle with a radius of four inches?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	5.6	-0.8	0.6	0.9	-0.9	1.8*	-1.7*	4.0*	-1.2*	4.6	0.1	-0.1	-2.6*	2.3	2.6	-0.6	-1.2	3.0	-1.4	-1.0
STD ERR OF DP		0.9	1.2	0.9	0.9	0.6	0.6	1.4	0.3	2.6	2.1	0.8	0.5	2.3	2.1	0.9	1.8	2.9	1.8	1.3
STD ERR OF P	0.6	0.9	1.4	1.1	0.9	0.9	0.7	1.5	0.6	2.9	2.0	0.9	0.6	2.4	2.1	1.1	2.0	3.0	1.7	1.3
AGE: 13																				
DELTA-P	5.7	-1.7	4.0	0.3	-2.9*	0.1	-0.1	9.6*	-1.4	-1.3	0.2	0.6	-1.8*	10.5	-1.2	-4.0*	3.1	1.5	2.0	-1.0
STD ERR OF DP		1.3	2.7	1.9	1.3	0.4	0.4	4.5	0.7	2.2	1.8	1.1	0.9	10.6	2.2	1.1	2.9	3.3	4.5	3.7
STD ERR OF P	1.1	0.8	3.5	2.3	0.9	1.2	1.2	5.0	1.1	2.3	1.9	1.3	1.4	11.1	2.2	0.5	3.0	3.5	4.6	4.1
RESPONSE: 10* AGE: 9 TEXT: 8; 8 inches																				
DELTA-P	4.6	0.4	0.5	-1.2	0.6	1.0*	-0.9*	-2.1*	0.3	-2.1	1.2	-1.3	3.5*	1.2	-0.9	-2.7*	-0.8	-0.5	2.8	5.6*
STD ERR OF DP		1.3	1.3	1.0	2.0	0.4	0.4	1.0	0.2	1.4	2.1	0.9	1.1	3.6	2.1	0.9	1.7	2.7	2.4	2.3
P-VALUE	4.6	5.0	5.1	3.4	5.2	5.6	3.7	2.5	4.9	2.5	5.8	3.3	8.1	5.8	3.7	2.0	3.8	4.1	7.4	10.2
STD ERR OF P	0.8	1.4	1.4	1.0	2.5	1.0	0.8	0.8	1.0	1.2	2.2	1.3	1.6	3.9	2.1	0.6	1.8	2.8	2.7	2.6
AGE: 13																				
DELTA-P	36.0	-3.8	-7.2*	-0.6	11.7*	3.9*	-3.6*	-23.4*	3.7*	-7.7	-14.0*	1.1	7.8*	-16.0*	-2.5	2.5	-7.4	-2.7	1.7	11.9*
STD ERR OF DP		2.9	3.0	2.3	3.0	1.5	1.4	1.8	0.6	4.6	3.1	2.0	1.4	4.6	5.5	2.4	4.9	5.9	4.6	4.2
P-VALUE	36.0	32.1	28.8	35.4	47.7	39.9	32.4	12.6	39.6	28.3	22.0	37.1	43.7	20.0	33.5	38.5	28.6	33.2	37.7	47.9
STD ERR OF P	1.7	3.2	3.6	2.3	3.7	2.0	2.4	2.0	1.9	4.8	3.3	2.7	2.1	4.2	5.8	3.1	5.5	6.0	4.8	4.3
RESPONSE: 20 AGE: 9 TEXT: 4; 4 inches																				
DELTA-P	2.6	-0.7	0.2	-0.3	0.9	0.8*	-0.8*	-1.2	0.3*	-1.8*	0.3	-0.6	1.6*	-0.8	-1.9*	0.1	0.6	-0.8	0.4	1.1
STD ERR OF DP		0.6	0.7	0.6	1.0	0.3	0.3	0.6	0.1	0.6	1.5	0.6	0.6	0.8	0.5	0.7	1.2	1.0	0.8	1.2
STD ERR OF P	0.4	0.6	0.7	0.7	1.3	0.6	0.4	0.6	0.5	0.5	1.5	0.7	0.9	0.8	0.4	0.9	1.3	1.1	0.9	1.3
AGE: 13																				
DELTA-P	7.4	0.2	-1.3	-0.5	1.7	0.5	-0.5	-3.6*	0.7*	0.6	1.9	1.3	-0.7	-3.5*	1.3	0.2	0.6	1.3	3.1	-3.9*
STD ERR OF DP		1.2	0.9	1.0	1.6	0.7	0.6	1.1	0.2	2.1	3.1	1.8	0.7	1.5	1.9	1.1	1.7	5.4	2.3	1.4
STD ERR OF P	0.7	1.4	0.9	1.0	2.1	0.8	1.0	1.1	0.8	2.3	3.1	1.3	1.1	1.3	2.0	1.4	1.8	5.7	2.3	1.3
RESPONSE: 21 AGE: 9 TEXT: 2; 2 inches																				
DELTA-P	2.7	-0.9	2.0	-1.1	0.3	1.4*	-1.3*	-0.6	0.0	-0.1	-0.1	0.8	1.1	4.3	-2.1*	-0.1	-1.0	0.0	-0.7	1.3
STD ERR OF DP		0.7	1.2	0.7	1.1	0.4	0.4	0.8	0.2	1.7	1.3	0.8	0.7	3.6	0.8	0.7	0.9	1.3	1.0	2.2
STD ERR OF P	0.5	0.5	1.5	0.7	1.3	0.8	0.5	0.9	0.6	1.7	1.3	1.0	1.0	3.9	0.6	0.7	0.9	1.4	0.8	2.4
AGE: 13																				
DELTA-P	8.9	0.2	-0.1	2.4*	-3.0*	0.9	-0.8	-0.9	0.3	-4.3*	3.2	-0.7	0.0	-1.4	-0.0	-0.1	0.5	-0.9	-0.9	1.9
STD ERR OF DP		1.1	1.2	1.2	0.9	0.6	0.6	1.5	0.2	1.6	2.4	0.8	0.7	2.3	1.5	0.9	2.0	1.9	1.4	1.6
STD ERR OF P	0.7	1.1	1.3	1.6	0.9	1.0	0.8	1.4	0.8	1.7	2.5	1.0	1.0	2.4	1.5	1.1	2.3	2.0	1.4	1.7
RESPONSE: 22 AGE: 9 TEXT: Other Unacceptable																				
DELTA-P	9.4	4.4*	-1.2	-3.8*	1.4	0.7	-0.6	13.3*	-2.5*	3.0	0.4	1.7	-1.0	6.1	3.4	-0.8	0.6	6.1	-3.8*	-5.2*
STD ERR OF DP		2.1	1.4	1.2	2.4	0.8	0.8	3.0	0.7	3.9	2.3	1.0	1.1	4.3	2.8	1.1	2.1	5.9	1.6	1.4
STD ERR OF P	1.0	2.4	1.2	1.1	3.0	1.1	1.4	3.5	0.7	4.5	2.4	1.3	1.2	4.5	2.7	1.1	2.3	6.6	1.3	1.2
AGE: 13																				
DELTA-P	14.9	1.9	1.2	0.3	-3.4*	1.1	-1.0	7.0*	-0.9	2.3	1.4	-2.0	1.5	1.1	3.1	-0.1	1.5	-1.4	-4.4*	1.0
STD ERR OF DP		1.5	1.7	1.4	1.6	0.9	0.8	2.7	0.5	2.9	3.0	1.3	0.9	2.9	2.8	1.2	2.1	2.5	2.2	2.1
STD ERR OF P	0.9	1.6	2.0	1.6	1.8	1.1	1.3	2.8	1.0	2.9	3.1	1.5	1.4	3.0	3.0	1.6	2.3	2.4	2.2	2.3
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	75.2	-2.4	-2.1	5.5*	-2.3	-5.6*	5.3*	-13.5*	3.0*	-3.6	-1.9	-0.5	-2.6	-13.1	-1.1	4.1*	1.7	-7.7	2.7	-1.8
STD ERR OF DP		2.8	2.6	2.1	3.4	1.1	1.0	4.0	0.9	4.2	4.6	1.8	1.8	6.8	5.6	2.0	2.7	6.9	3.8	4.0
STD ERR OF P	1.5	3.2	2.8	2.1	4.2	1.8	1.8	4.4	1.6	4.6	4.7	2.2	2.3	7.2	5.8	2.1	2.7	7.5	3.8	4.3

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                          NATION |              REGION               |      SEX      |      RACE      |     PARENTAL EDUCATION      |          SIZE-AND-TYPE OF COMMUNITY
                                 | SOUTH                       NORTH |               |                |         SOME   GRAD   POST  |  LOW  EXTREME SMALL MEDIUM  MAIN  URBAN   HIGH
                          _______|__EAST___WEST_CENTRAL__EAST__|__MALE__FEMALE_|_BLACK__WHITE__|_NO_HS___HS_____HS_____HS__| METRO__RURAL__PLACES__CITY_BIG CTY FRINGE METRO_

EXERCISE: RK12

What is the diameter of a circle with a radius of four inches?

RESPONSE:  39    AGE: 13          TEXT:  I Don't Know.

    DELTA-P                27.0      3.2     3.4    -1.9    -4.2*     -6.5*   6.0*     11.3*  -2.4*     10.4*   7.2    -0.2    -6.8*     9.3  [illegible]  1.5    1.7    2.2   -1.6  -10.0*
    STD ERR OF DP                    3.2     3.5     2.4     2.0       1.2    1.1       3.8    0.7       4.7    3.7     1.3     1.2      6.6  [illegible]  2.2    3.8    4.4    3.4    2.5
    STD ERR OF P            1.6      3.7     4.4     2.7     1.7       1.5  [illegible] 4.1    1.6       5.2    4.2     2.4     1.8      6.7    6.6       2.7    4.4    4.3    3.6    2.3
```

RK13
OBJ IV

Mr. Simmons put a wire fence all the way around his rectangular garden. The garden is nine feet long and five feet wide. How many feet of fencing did he use?

ANSWER ______________________

Report #: RK13

NAEP #: K51002-1

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 07-27
National P-value:
RK13 0.08

Timing: (in seconds)
Stimulus: 13
Response: 40
RK13 Exercise total: 53

SCORING GUIDE
RK13
K51002-1

00 = No Response

10 = 28 feet; 28

20 = 45; attempt to multiply 9 by 5

21 = 14; attempt to add 9 and 5

22 = Other Unacceptable

39 = I Don't Know.

EXERCISE: BK13

Mr. Simmons put a wire fence all the way around his rectangular garden which is nine feet long and five feet wide. How many feet of fencing did he use?

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.7	-0.3	0.6	-0.4	0.3	-0.1	0.1	1.5	-0.6#	-0.1	1.7	-0.7	-1.3#	1.2	1.0	-0.2	-1.0*	2.4	-1.3#	-0.6
STD ERR OF DP		0.6	0.7	0.4	0.7	0.2	0.2	1.0	0.2	1.0	1.4	0.4	0.4	1.2	1.5	0.4	0.5	1.6	0.4	0.6
STD ERR OF P	0.3	0.7	0.8	0.4	0.9	0.4	0.4	1.2	0.2	1.0	1.5	0.4	0.3	1.2	1.6	0.4	0.4	1.8	0.2	0.7

RESPONSE: 10* AGE: 9 TEXT: 28 feet; 28

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	6.9	-3.3#	0.6	1.8	0.6	1.7#	-1.7#	-6.0#	1.3#	-0.2	-2.0	0.2	3.9#	-5.8#	-4.3#	0.7	-0.0	0.8	-0.2	3.9
STD ERR OF DP		0.9	1.2	1.0	1.1	0.6	0.6	0.7	0.2	2.2	2.1	1.5	0.1	0.9	1.0	0.9	1.5	2.6	1.5	2.5
P-VALUE	6.9	3.6	7.5	8.6	7.5	8.6	5.2	0.9	8.2	6.7	4.9	7.0	10.8	1.1	2.6	7.6	6.9	7.7	6.6	10.8
STD ERR OF P	0.6	0.9	1.3	1.3	1.3	0.8	0.9	0.4	0.7	2.4	2.2	1.7	1.3	0.7	0.8	1.1	1.6	2.7	1.5	2.7

RESPONSE: 20 AGE: 9 TEXT: 45; attempt to multiply 9 times 5

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	7.6	-2.0#	-1.9	0.6	3.6*	-0.2	0.2	-4.2#	0.9#	-5.3#	-3.3	0.6	2.8#	-4.6#	0.3	-0.0	-1.3	-1.2	3.5	0.6
STD ERR OF DP		1.1	1.4	1.5	1.5	0.6	0.6	1.3	0.3	1.4	2.5	1.2	1.0	1.8	2.3	1.4	1.1	1.9	2.1	1.0
STD ERR OF P	0.8	0.9	1.6	1.8	1.9	0.9	1.2	1.2	1.0	1.2	2.6	1.3	1.6	1.7	2.5	1.8	0.9	2.0	2.3	1.9

RESPONSE: 21 AGE: 9 TEXT: 14; attempt to add 9 and 5

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	42.6	0.0	1.3	-1.6	0.7	-0.2	0.2	-3.5	1.1	-9.4*	1.2	3.9	3.0	-5.8	6.8	3.2	-1.7	-5.7	-0.5	-1.6
STD ERR OF DP		2.8	2.9	1.8	2.6	1.2	1.2	2.6	0.6	4.2	4.5	2.5	1.9	3.3	3.7	2.2	3.8	4.0	2.8	4.1
STD ERR OF P	1.4	3.3	3.4	1.7	3.2	1.6	2.0	2.9	1.5	4.4	5.0	3.0	2.3	3.3	3.7	2.8	4.2	4.3	3.0	4.3

RESPONSE: 22 AGE: 9 TEXT: Other Unacceptable

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	25.0	4.2	-2.7	1.7	-3.4	1.9	-1.9	6.6#	-1.3#	4.9	7.3	0.8	-1.3	7.9#	-1.4	-3.2	4.2	2.4	-2.0	0.4
STD ERR OF DP		2.6	2.2	1.5	2.0	1.0	1.0	2.2	0.5	4.8	5.0	1.7	1.7	2.9	3.2	1.8	4.3	3.0	3.2	3.1
STD ERR OF P	1.2	3.3	2.5	1.4	2.4	1.5	1.7	2.4	1.4	5.0	5.0	2.2	1.8	2.9	3.2	2.1	4.6	3.2	3.6	3.1

RESPONSE: 39 AGE: 9 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	16.3	2.3	2.2	-2.0	-1.8	-3.1#	3.1#	5.6#	-1.3*	10.1#	-5.0	-4.7#	-7.2#	7.2*	-2.4	-0.5	-0.2	1.3	0.5	-2.7
STD ERR OF DP		1.9	2.6	1.9	1.9	0.7	0.7	1.7	0.6	4.0	3.8	1.5	1.0	2.9	2.3	1.7	2.7	3.0	2.8	2.2
STD ERR OF P	1.2	2.0	3.0	2.3	2.2	1.1	1.6	1.7	1.2	4.5	4.0	1.7	1.2	2.7	2.3	2.2	2.9	3.1	3.3	2.4

9K14
OBJ IV

If the length of one leg of a right triangle is nine inches, and the length of the other leg is 12 inches, how many inches long is the hypotenuse?

ANSWER ______________________

SCORING GUIDE
9K14
K51005-34

00 = No Response

10 = 15; 15 inches; 15"

11 = 225 under radical as final answer

12 = Correct process with no answer or wrong answer; e.g., (12 squared + 9 squared) under radical; (144 + 81) under radical; (225) under radical

20 = 21; 21 inches; 9 + 12 (inches)

21 = (63) under radical; (12 squared - 9 squared) under radical; 3 times (7 under radical)

22 = 3; 3 inches; 12 - 9

23 = 12 squared + 9 squared; 225

24 = Other Unacceptable; e.g., 24

25 = 108; attempt to multiply 9 by 12

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

Report #: 9K14

NAEP #: K51005-34

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		10-06	07-30
National P-value:			
	9K14	23.88	18.45
Timing: (in seconds)			
	Stimulus:	9	10
	Response:	61	*
9K14	Exercise total:	70	*

*Time not limited by paced tape.

	NATION	REGION: SOUTH EAST	REGION: WEST	REGION: CENTRAL	REGION: NORTH EAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	SIZE-AND-TYPE OF COMMUNITY: EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY: SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY: MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY: MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY: URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY: HIGH METRO

EXERCISE: BK14

If the length of one leg of a right triangle is nine inches, and the length of the other leg is 12 inches, how many inches long is the hypotenuse?

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.2	-0.7#	0.5	-0.3	0.4	-0.1	0.1	0.3	-0.1	1.6*	0.3	-0.6*	-0.2	1.1	0.4	-0.4	0.3	1.2	-0.4	-0.6
STD ERR OF DP		0.2	0.5	0.3	0.5	0.2	0.2	0.6	0.1	0.8	0.7	0.3	0.2	1.1	0.5	0.3	0.7	1.4	0.4	0.6
STD ERR OF P	0.2	0.0	0.6	0.3	0.6	0.2	0.3	0.7	0.3	0.8	0.7	0.3	0.3	1.2	0.4	0.3	0.8	1.4	0.4	0.6
AGE: Ad																				
DELTA-P	1.2	0.5	0.6	-0.7	-0.3	0.4	-0.3	-0.5	0.0	0.1	0.8	0.3	-1.2#	-1.2#	4.0	-0.0	0.6	-0.4	-1.2#	-0.5
STD ERR OF DP		1.1	0.5	0.4	0.5	0.2	0.2	0.4	0.1	0.5	0.9	0.6	0.4	0.4	2.9	0.4	0.7	0.9	0.4	0.7
STD ERR OF P	0.4	1.4	0.6	0.4	0.4	0.4	0.4	0.6	0.4	0.7	1.2	0.6	0.0	0.0	3.2	0.4	0.7	0.9	0.0	0.7

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	23.9	-5.5*	-3.7	4.4	3.4	3.4#	-3.1#	-15.5#	3.2#	-13.5#	-9.7#	-3.6	9.6#	-13.8#	-6.9	-3.4*	6.4*	2.7	-1.5	19.9#
STD ERR OF DP		2.5	2.4	3.1	3.0	1.2	1.1	2.5	0.7	3.4	2.1	2.1	1.6	2.6	5.7	1.6	2.9	6.0	4.1	5.0
P-VALUE	23.9	18.4	20.2	28.3	27.3	27.3	20.8	8.4	27.1	10.4	14.2	20.3	33.5	10.1	17.0	20.5	30.3	26.5	22.4	43.8
STD ERR OF P	1.6	2.6	2.5	4.0	3.5	2.3	1.7	2.0	2.0	3.6	2.6	2.3	2.5	2.2	6.0	1.8	3.2	5.9	4.5	5.4
AGE: Ad																				
DELTA-P	18.5	-1.0	0.5	-1.5	1.9	9.3#	-8.7#	-14.8#	2.2#	-7.9#	-8.6#	2.0	12.6#	-11.0#	-6.1*	-1.1	2.2	-7.1#	-1.4	17.8#
STD ERR OF DP		2.0	1.6	1.7	1.8	1.1	0.9	1.6	0.4	1.4	1.8	1.6	2.1	2.4	2.6	1.3	4.4	2.8	2.5	3.6
P-VALUE	18.5	17.5	18.9	17.0	20.4	27.8	9.8	3.7	20.6	10.6	9.9	20.5	31.0	7.5	12.4	17.4	20.6	11.3	17.1	36.3
STD ERR OF P	1.0	2.3	1.9	2.1	2.0	1.7	1.1	1.5	1.2	1.2	1.8	2.0	2.6	2.3	2.6	1.4	4.7	2.8	2.6	4.0

RESPONSE: 10 AGE: 17 TEXT: 15; 15"; 15 inches

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	22.0	-5.3	-3.1	4.3	2.8	3.0#	-2.7*	-14.8#	3.1#	-12.3#	-8.3#	-3.7	8.7#	-12.3#	-5.9	-3.9*	6.5*	2.1	-1.0	18.8#
STD ERR OF DP		2.7	2.5	3.1	3.4	1.2	1.1	2.2	0.6	3.4	2.0	1.9	1.6	2.6	5.5	1.7	3.1	5.5	4.2	5.1
STD ERR OF P	1.7	2.7	2.4	3.9	4.1	2.5	1.6	1.7	2.1	3.5	2.6	2.1	2.6	2.1	5.7	2.1	3.6	5.5	4.6	5.6
AGE: Ad																				
DELTA-P	17.9	-1.1	0.6	-1.6	2.0	8.8#	-8.2#	-14.2#	2.2#	-8.0#	-8.0#	2.2	12.1#	-10.7#	-5.5*	-0.8	2.2	-7.2#	-2.6	17.6#
STD ERR OF DP		2.1	1.7	1.7	1.7	1.1	0.9	1.6	0.3	1.2	1.7	1.5	2.0	2.3	2.6	1.3	4.4	2.6	2.7	3.8
STD ERR OF P	1.0	2.4	1.9	2.0	1.9	1.7	1.1	1.5	1.1	1.1	1.8	1.9	2.5	2.2	2.6	1.4	4.7	2.7	2.9	4.1

RESPONSE: 11 AGE: 17 TEXT: 225 under radical as final answer

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.9	-0.2	-0.6	0.1	0.6	0.4	-0.4	-0.7	0.1	-1.2	-1.4#	0.1	0.8*	-1.6#	-1.0	0.5	-0.2	0.5	-0.5	1.1
STD ERR OF DP		0.8	0.5	0.6	0.9	0.3	0.3	1.0	0.2	0.7	0.5	0.5	0.4	0.5	0.6	0.5	0.8	0.9	0.7	1.6
STD ERR OF P	0.4	0.9	0.5	0.7	1.1	0.6	0.5	1.0	0.5	0.7	0.4	0.7	0.7	0.4	0.5	0.7	0.9	1.0	0.7	1.8
AGE: Ad																				
DELTA-P	0.6	0.1	-0.1	0.1	-0.1	0.5*	-0.5*	-0.6#	-0.0	0.2	-0.6#	-0.2	0.5	-0.3	-0.6#	-0.3	-0.0	0.1	1.3	0.2
STD ERR OF DP		0.4	0.3	0.4	0.4	0.2	0.2	0.2	0.1	0.4	0.2	0.3	0.4	0.4	0.2	0.2	0.6	0.6	0.9	0.5
STD ERR OF P	0.2	0.4	0.4	0.5	0.4	0.4	0.1	0.0	0.2	0.4	0.0	0.4	0.5	0.3	0.0	0.2	0.6	0.7	1.1	0.6

RESPONSE: 12 AGE: 17 TEXT: Correct process with no answer or wrong answer; e.g., (12 squared + 9 squared) under radical; (144 + 81) under radical; (225) under radical

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.6	-0.1	-0.1	0.1	0.1	-0.6	0.5	0.5	0.0	-1.6#	-1.4#	-0.8#	1.3#	0.1	-1.6#	0.3	0.7	1.2	-0.1	-1.4#
STD ERR OF DP		0.6	0.7	0.8	0.6	0.3	0.3	1.1	0.2	0.4	0.5	0.3	0.4	1.5	0.4	0.6	0.8	1.2	0.8	0.5
STD ERR OF P	0.4	0.5	0.8	1.1	0.7	0.4	0.6	1.2	0.5	0.0	0.2	0.4	0.8	1.6	0.0	0.9	0.8	1.2	0.8	0.2
AGE: Ad																				
DELTA-P	0.4	-0.3	-0.3	-0.4#	1.0#	0.2	-0.2	-0.4#	0.1#	-0.4#	-0.1	0.3	0.2	-0.4#	-0.4#	0.1	-0.4#	0.4	-0.1	0.4
STD ERR OF DP		0.2	0.2	0.1	0.3	0.1	0.1	0.1	0.0	0.1	0.3	0.2	0.3	0.1	0.1	0.3	0.1	0.7	0.3	0.6
STD ERR OF P	0.1	0.2	0.2	0.0	0.4	0.2	0.2	0.0	0.2	0.0	0.3	0.2	0.4	0.0	0.0	0.3	0.0	0.8	0.3	0.6

RESPONSE: 20 AGE: 17 TEXT: 21; 9 + 12 (inches); 21 inches

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	13.8	4.0*	-1.0	-0.7	-1.7	-3.1#	2.9#	10.7#	-1.9#	9.9#	5.4#	1.0	-4.2#	6.0*	1.1	-0.7	1.6	-2.1	-0.2	-3.8
STD ERR OF DP		1.7	1.4	1.6	1.2	0.9	0.9	2.5	0.5	2.6	2.0	1.0	0.8	3.0	3.5	1.1	1.7	3.0	1.7	2.8
STD ERR OF P	0.8	1.9	1.6	2.0	1.2	1.0	1.4	2.8	0.8	2.8	2.2	1.4	1.0	3.1	3.6	1.3	2.1	3.1	1.8	2.8

EXERCISE: RK14

If the length of one leg of a right triangle is nine inches, and the length of the other leg is 12 inches, how many inches long is the hypotenuse?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad TEXT: 21; 9 + 12 (inches); 21 inches																				
DELTA-P	11.2	2.8*	-1.0	0.7	-2.0	-2.4#	2.2#	7.6*	-0.6	1.9	2.4	-0.8	-1.9	2.5	-1.1	0.2	1.2	0.1	1.9	-4.2#
STD ERR OF DP		1.3	1.0	1.4	1.2	0.8	0.8	3.1	0.4	1.4	2.1	1.3	1.3	2.5	1.6	0.9	2.5	3.2	2.0	1.5
STD ERR OF P	0.7	1.4	1.1	1.9	1.3	1.0	1.2	3.2	0.8	1.7	2.3	1.4	1.4	2.6	1.6	1.2	2.6	3.4	2.1	1.4
RESPONSE: 21 AGE: 17 TEXT: (63) under radical; (12 squared - 9 squared) under radical; 3 times (7 under radical)																				
DELTA-P	0.1	0.2	0.0	-0.1	-0.1	0.1	-0.1	-0.1	-0.0	0.2	-0.1	0.1	-0.1	-0.1	-0.1	0.0	0.2	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.0	0.2	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.1	-0.1	-0.1	-0.1	0.2	0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.2	-0.1	-0.1	-0.1	-0.1	0.8	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.8	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.9	0.0	0.0
RESPONSE: 22 AGE: 17 TEXT: 3; 3 inches; 12 - 9																				
DELTA-P	6.4	1.3	1.1	-0.5	-1.6	-0.6	0.6	3.7#	-1.0#	0.5	2.6	2.2*	-3.3#	1.8	5.1*	-1.6	-2.0	7.2*	0.2	-3.1#
STD ERR OF DP		1.0	1.4	1.2	0.9	0.5	0.5	1.5	0.4	2.0	1.9	1.0	0.7	2.1	2.4	0.8	1.7	3.2	1.5	1.2
STD ERR OF P	0.7	1.0	1.7	1.6	0.8	0.9	0.8	1.8	0.7	2.0	2.1	1.4	0.7	2.4	2.5	0.9	1.8	3.3	1.7	1.2
AGE: Ad																				
DELTA-P	8.0	2.1	0.4	-1.2	-0.8	-0.5	0.5	3.9	-0.9*	4.3#	1.8	-1.4	-4.5#	5.3*	4.1*	0.5	0.0	-3.9*	1.2	-6.0#
STD ERR OF DP		1.3	1.1	1.0	1.3	0.7	0.6	2.8	0.4	1.5	1.6	1.1	0.8	2.7	1.8	0.9	1.7	1.6	2.1	1.1
STD ERR OF P	0.7	1.4	1.2	1.1	1.6	0.9	1.0	2.9	0.7	1.8	1.6	1.3	0.9	2.9	1.8	1.2	1.6	1.6	2.3	0.9
RESPONSE: 23 AGE: 17 TEXT: 12 squared + 9 squared; 225																				
DELTA-P	0.8	-0.1	0.0	-0.4	0.5	0.0	-0.0	-0.7#	0.2#	0.5	0.5	-0.3	0.1	-0.5	-0.8#	0.3	0.1	0.3	0.0	-0.2
STD ERR OF DP		0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.1	0.8	0.7	0.2	0.3	0.4	0.2	0.3	0.5	0.8	0.5	0.5
STD ERR OF P	0.2	0.3	0.4	0.4	0.4	0.3	0.2	0.2	0.3	0.8	0.7	0.3	0.3	0.3	0.0	0.4	0.5	0.9	0.5	0.5
AGE: Ad																				
DELTA-P	0.1	0.0	-0.2	-0.0	0.2	-0.1	0.1	-0.2	0.0	-0.2	0.4	-0.0	-0.0	-0.2	-0.2	-0.1	0.2	-0.2	0.5	-0.2
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.6	0.1
STD ERR OF P	0.1	0.2	0.0	0.1	0.3	0.1	0.2	0.0	0.1	0.0	0.5	0.1	0.1	0.0	0.0	0.1	0.3	0.0	0.7	0.0
RESPONSE: 24 AGE: 17 TEXT: Other Unacceptable; e.g., 24																				
DELTA-P	27.3	4.2	0.2	-3.0	-0.4	2.1	-1.9	-0.1	-0.0	-0.6	-1.4	-0.4	1.1	2.2	0.7	4.2#	-4.6	-12.3#	2.2	-4.6*
STD ERR OF DP		2.1	2.1	2.0	1.8	1.2	1.1	2.7	0.5	3.7	2.7	1.8	1.4	2.9	2.9	1.5	2.5	2.6	3.3	2.3
STD ERR OF P	1.2	2.4	2.4	2.4	2.0	1.6	1.7	2.5	1.4	3.7	2.8	2.1	2.0	2.9	2.9	1.8	2.7	2.5	3.7	2.5
AGE: Ad																				
DELTA-P	17.2	-4.3#	1.7	1.3	0.4	1.1	-1.0	-0.8	0.7	-5.0#	0.0	-0.4	4.9*	-3.8	1.4	-2.6#	-0.9	10.7*	4.5	-0.6
STD ERR OF DP		1.4	1.8	2.0	1.8	0.9	0.8	3.7	0.5	1.4	2.1	1.7	2.0	2.2	2.7	1.0	2.3	4.5	3.2	2.1
STD ERR OF P	1.1	1.3	2.1	2.5	2.1	1.4	1.3	4.0	1.2	1.4	2.3	2.0	2.3	2.3	2.8	1.3	2.5	4.7	3.5	2.2
RESPONSE: 25 AGE: 17 TEXT: 108; attempt to multiply 9 by 12																				
DELTA-P	2.4	-0.6	1.0	-0.4	-0.0	-1.0#	1.0#	2.6#	-0.7#	0.6	1.6	-0.6	-0.6	3.1	1.3	-0.7	0.9	0.8	-1.1	-1.0
STD ERR OF DP		0.6	0.8	0.6	0.6	0.3	0.3	1.0	0.3	1.1	1.2	0.4	0.4	1.8	0.9	0.5	1.1	1.3	0.8	0.9
STD ERR OF P	0.4	0.6	1.0	0.7	0.7	0.4	0.6	1.1	0.3	1.2	1.4	0.5	0.4	1.9	0.9	0.6	1.1	1.4	0.8	0.8
AGE: Ad																				
DELTA-P	2.4	0.4	0.3	-1.4#	0.9	-0.7	0.7	0.5	0.0	-1.3*	1.9	0.5	-0.3	0.4	-2.2#	0.8	-0.4	0.9	-1.4	-0.3
STD ERR OF DP		0.7	0.7	0.5	0.9	0.5	0.4	1.6	0.2	0.5	1.5	0.7	0.7	1.5	0.5	0.6	0.8	1.2	0.8	1.1
STD ERR OF P	0.4	0.8	0.9	0.3	1.2	0.5	0.7	1.7	0.5	0.5	1.7	0.9	0.7	1.6	0.2	0.9	0.9	1.2	0.7	1.1

EXERCISE: MK34

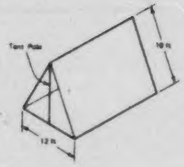
If the length of one leg of a right triangle is nine inches, and the length of the other leg is 12 inches, how many inches long is the hypotenuse?

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	22.6	-2.7	2.0	0.9	-0.7	-0.1	0.1	-1.5	0.4	2.4	2.2	3.1	-3.6*	0.2	0.9	2.0	-3.5	1.1	1.0	-5.1
STD ERR OF DP		1.8	2.0	1.8	1.9	1.2	1.1	2.4	0.5	4.0	2.7	1.8	1.3	3.3	5.2	1.3	2.0	4.0	2.5	2.8
STD ERR OF P	1.1	1.8	2.3	2.2	2.1	1.6	1.5	2.6	1.2	4.3	2.8	2.1	1.6	3.5	5.5	1.7	2.0	4.1	2.7	2.8

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	40.7	-0.1	-2.0	3.4	-1.5	-7.4*	6.8*	4.7	-1.5*	8.8*	1.4	-0.4	-9.9*	8.5*	0.6	2.3	-2.4	-1.3	-4.0	-6.5
STD ERR OF DP		2.2	2.5	3.3	2.3	1.5	1.3	3.9	0.5	2.0	2.9	2.5	2.6	3.3	3.8	2.2	4.1	4.2	3.2	3.6
STD ERR OF P	1.6	1.9	2.8	4.4	2.3	2.0	2.3	4.1	1.7	2.6	3.0	3.3	2.6	3.1	3.9	2.9	4.2	4.5	3.5	4.1



To set up a tent having the dimensions shown in the drawing, the vertical tent poles used should be how many feet high?

ANSWER ____________________

SCORING GUIDE
8K15
K51016-30

00 = No Response

10 = 8; 8 feet; (64) under radical

11 = Correct process with no answer or wrong answer; e.g., (10 squared - 12/2 squared) under radical

20 = Any attempt to find the square root of 10 squared + 6 squared; e.g., (136) under radical; 2 times (34 under radical); 4 times (8.5 under radical)

21 = Attempt to find the square root of 12 squared plus 10 squared; e.g., (244) under radical; 2 times (61 under radical); or attempt to find the square root of 12 squared minus 10 squared; e.g., (44) under radical; 2 times (11 under radical)

22 = 6; 6 feet

23 = 10; 10 feet

24 = 16; 16 feet

25 = 12; 12 feet

26 = 11; 11 feet

27 = Other Unacceptable

29 = I Don't Know.

Note: Only Category 10 was considered acceptable.

Report #: 8K15

NAEP #: K51016-30

Content Area: H. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		07-08	03-04
National P-value:			
	8K15	33.78	30.19
Timing: (in seconds)			
	Stimulus:	7	8
	Response:	30	*
8K15	Exercise total:	37	*

*Time not limited by paced tape.

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                      NATION |               REGION              |      SEX       |      RACE      |          PARENTAL EDUCATION        |            SIZE-AND-TYPE OF COMMUNITY
                             | SOUTH                      NORTH  |                |                |          SOME     GRAD    POST     |  LOW   EXTREME SMALL  MEDIUM   MAIN   URBAN   HIGH
                      ------ |  EAST   WEST  CENTRAL      EAST   |  MALE  FEMALE  | BLACK   WHITE  | NO HS     HS       HS      HS      | METRO   RURAL  PLACES  CITY   BIG CTY FRINGE METRO

EXERCISE: RK15

To set up a tent having the dimensions shown in the drawing, the vertical tent poles used should be how many feet high?


RESPONSE:  00     AGE: 17       TEXT:  No Response.

    DELTA-P                     2.8    0.1   -0.2   -0.1    0.3     0.1   -0.1     3.0   -0.3     -0.4   -1.2   -0.8   -0.1     3.5*  -0.2   -1.1   -0.1    1.5   -0.6    0.8
    STD ERR OF DP                      0.9    0.5    0.6    1.0     0.4    0.4     2.2    0.3      1.6    0.7    0.5    0.4     1.7    1.1    0.6    1.1    2.1    1.1    1.0
    STD ERR OF P                0.4    1.0    0.4    0.7    1.3     0.6    0.6     2.5    0.4      1.7    0.7    0.6    0.5     1.8    1.1    0.6    1.1    2.3    1.1    1.1

                  AGE: Ad

    DELTA-P                     0.5   -0.3    0.1   -0.5    0.7     0.2   -0.2     2.6   -0.3      0.1   -0.5    0.6   -0.5     2.5    1.1   -0.5    0.1   -0.5   -0.5   -0.5
    STD ERR OF DP                      0.3    0.4    0.3    0.9     0.3    0.3     2.4    0.3      0.4    0.3    0.6    0.3     2.6    1.1    0.3    0.5    0.3    0.3    0.3
    STD ERR OF P                0.3    0.1    0.4    0.0    1.2     0.6    0.2     2.7    0.1      0.3    0.0    0.9    0.0     2.9    1.2    0.0    0.5    0.0    0.0    0.0

RESPONSE:  10*    AGE: 17       TEXT:  8; 8 feet; (64) under radical (Only category 10 was considered to be the acceptable response.)

    DELTA-P                    33.8  -11.4#   2.5   -0.1    6.6     4.9#  -4.7#  -21.4#   3.6#   -19.8# -15.9#  -2.1   11.0#  -16.5#  -6.5    1.1    4.0   -3.1   -2.6   11.6#
    STD ERR OF DP                      2.5    3.1    2.6    3.4     1.3    1.3     2.6    0.5      3.0    2.8    1.7    1.3     4.2    4.3    2.3    3.7    4.0    3.4    4.0
    P-VALUE                    33.8   22.4   36.3   33.7   40.3    38.6   29.1    12.3   37.4     14.0   17.9   31.7   44.8    17.2   27.3   34.9   37.8   30.7   31.2   45.4
    STD ERR OF P                1.8    2.3    3.7    2.7    4.4     2.0    2.4     2.3    2.0      2.7    2.6    2.3    2.4     4.0    4.4    3.4    3.4    4.1    3.2    4.6

                  AGE: Ad

    DELTA-P                    28.2   -4.5    1.2    0.9    1.4    11.6# -10.8#  -19.4#   3.2#   -11.0#  -4.9    2.3   13.6#  -14.0#  -6.2    1.4    0.7    2.0    3.0    5.1
    STD ERR OF DP                      2.6    2.2    2.6    2.6     1.4    1.3     3.0    0.6      2.0    2.6    2.1    1.8     3.4    3.6    1.8    4.6    5.5    3.8    3.7
    P-VALUE                    28.2   23.7   29.4   29.1   29.6    39.8   17.4     8.8   31.4     17.2   23.3   30.5   41.8    14.2   22.0   29.6   28.9   30.2   31.1   33.3
    STD ERR OF P                1.5    2.8    2.4    3.3    3.0     2.5    1.2     2.6    1.7      2.3    2.7    2.5    2.5     3.3    3.5    2.2    5.0    5.7    3.9    4.3

RESPONSE:  11     AGE: 17       TEXT:  Correct process with no answer or wrong answer; e.g., (10 squared - 12/2 squared) under radical

    DELTA-P                     0.3    0.5   -0.3*  -0.1   -0.1     0.0   -0.0    -0.3*   0.1*     0.5    0.3   -0.1   -0.3    -0.3*  -0.3*   0.3   -0.3*  -0.3*   0.2   -0.3*
    STD ERR OF DP                      0.4    0.1    0.2    0.2     0.1    0.1     0.1    0.0      0.5    0.6    0.2    0.1     0.1    0.1    0.2    0.1    0.1    0.4    0.1
    STD ERR OF P                0.1    0.5    0.0    0.3    0.3     0.2    0.2     0.0    0.2      0.6    0.6    0.2    0.1     0.0    0.0    0.3    0.0    0.0    0.5    0.0

                  AGE: Ad

    DELTA-P                     0.4   -0.4   -0.4   -0.4    1.2     0.4   -0.4    -0.4    0.1     -0.2   -0.4   -0.4    0.9    -0.4   -0.4    0.6   -0.4   -0.4   -0.4   -0.4
    STD ERR OF DP                      0.3    0.3    0.3    1.0     0.4    0.3     0.3    0.1      0.4    0.3    0.3    1.0     0.3    0.3    0.5    0.3    0.3    0.3    0.3
    STD ERR OF P                0.3    0.0    0.0    0.0    1.3     0.7    0.0     0.0    0.4      0.2    0.0    0.0    1.3     0.0    0.0    0.9    0.0    0.0    0.0    0.0

RESPONSE:  20     AGE: 17       TEXT:  Any attempt to find the square root of 10 squared + 6 squared; e.g., (136) under radical; 2 x (34 under radical); 4 x (8.5 under radical)

    DELTA-P                     0.7   -0.6#  -0.2    0.9*  -0.2    -0.0    0.0    -0.7#   0.1#    -0.7#  -0.7#  -0.1    0.4    -0.7#  -0.5    0.2   -0.3   -0.5*   0.2    0.6
    STD ERR OF DP                      0.2    0.4    0.4    0.3     0.2    0.2     0.2    0.0      0.2    0.2    0.3    0.2     0.2    0.3    0.3    0.4    0.3    0.6    0.8
    STD ERR OF P                0.2    0.1    0.5    0.5    0.3     0.3    0.2     0.0    0.3      0.0    0.0    0.3    0.4     0.0    0.2    0.4    0.4    0.2    0.6    0.8

                  AGE: Ad

    DELTA-P                     0.8   -0.8    1.9   -0.8   -0.6     0.8   -0.8    -0.8    0.1     -0.8   -0.8    1.7   -0.9    -0.8   -0.8   -0.6   -0.8   -0.8   -0.6    4.2
    STD ERR OF DP                      0.7    1.8    0.7    0.7     0.7    0.7     0.7    0.1      0.7    0.7    1.5    0.7     0.7    0.7    0.7    0.7    0.7    0.7    4.0
    STD ERR OF P                0.7    0.0    2.4    0.0    0.1     1.4    0.0     0.0    0.8      0.0    0.0    2.1    0.0     0.0    0.0    0.1    0.0    0.0    0.2    4.7

RESPONSE:  21     AGE: 17       TEXT:  Attempt to find square root of 12 squared + 10 squared; e.g., (244) under radical; or attempt to find square root of 12 squared - 10 squared

    DELTA-P                     0.4    0.0    0.2    0.1   -0.4*   -0.1    0.1    -0.4#  -0.0     -0.4#  -0.4#  -0.1    0.2     0.3    0.0   -0.2    1.2   -0.2   -0.3   -0.4#
    STD ERR OF DP                      0.3    0.3    0.3    0.2     0.2    0.1     0.2    0.1      0.2    0.2    0.2    0.2     0.6    0.4    0.2    0.9    0.3    0.2    0.2
    STD ERR OF P                0.2    0.3    0.3    0.4    0.1     0.2    0.3     0.0    0.2      0.0    0.0    0.2    0.3     0.7    0.4    0.2    1.0    0.3    0.1    0.0

                  AGE: Ad

    DELTA-P                     0.1    0.0    0.2   -0.1   -0.1    -0.0    0.0    -0.1    0.0*     0.0   -0.1   -0.1    0.2    -0.1   -0.1   -0.0   -0.1   -0.1   -0.1    0.4
    STD ERR OF DP                      0.1    0.2    0.1    0.1     0.1    0.1     0.1    0.0      0.1    0.1    0.1    0.2     0.1    0.1    0.1    0.1    0.1    0.1    0.4
    STD ERR OF P                0.1    0.1    0.3    0.0    0.0     0.1    0.1     0.0    0.1      0.1    0.0    0.0    0.3     0.0    0.0    0.1    0.0    0.0    0.0    0.5

RESPONSE:  22     AGE: 17       TEXT:  4; 4 feet

    DELTA-P                     1.2   -0.4    0.6    0.1   -0.5     0.5   -0.4    -1.1#   0.0      0.9   -0.1   -0.3    0.3     0.1   -0.5    0.1    1.0   -0.6    0.5   -1.2#
    STD ERR OF DP                      0.3    0.5    0.4    0.4     0.3    0.3     0.3    0.2      1.0    0.6    0.4    0.3     0.6    0.8    0.3    0.8    0.6    0.9    0.3
    STD ERR OF P                0.3    0.2    0.7    0.5    0.5     0.5    0.3     0.2    0.3      1.1    0.6    0.3    0.5     0.6    0.8    0.4    0.9    0.6    1.0    0.0
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EXERCISE: MK15

To set up a tent having the dimensions shown in the drawing, the vertical tent poles used should be how many feet high?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 22 AGE: Ad TEXT: 4; 4 feet																				
DELTA-P	1.6	-0.7	1.2	-0.2	-0.5	0.8	-0.7	-0.6	0.2	-0.8	1.1	-0.7	1.1	-1.6#	1.7	-0.1	-0.6	0.9	1.8	-1.2*
STD ERR OF DP		0.5	0.9	0.5	0.5	0.4	0.4	0.9	0.1	0.5	1.4	0.4	0.7	0.4	1.6	0.4	0.5	1.5	2.1	0.5
STD ERR OF P	0.4	0.4	1.2	0.5	0.5	0.7	0.3	0.9	0.5	0.5	1.7	0.4	0.8	0.0	1.8	0.4	0.4	1.6	2.4	0.4
RESPONSE: 23 AGE: 17 TEXT: 10; 10 feet																				
DELTA-P	18.5	3.5	-2.0	-1.1	0.2	-2.0*	1.9*	10.7#	-1.7#	7.5	5.7*	1.7	-5.5#	5.9	2.2	-1.5	-0.0	2.5	2.5	-4.7
STD ERR OF DP		1.9	1.9	1.6	1.3	0.9	0.9	2.4	0.4	4.3	2.8	1.4	1.0	3.9	3.9	1.1	2.7	2.8	3.0	2.3
STD ERR OF P	1.0	2.1	2.3	1.9	1.4	1.5	1.1	2.5	1.0	4.6	2.8	1.7	1.1	3.9	3.9	1.4	3.0	2.9	3.2	2.4
AGE: Ad																				
DELTA-P	24.6	3.0	-1.5	2.1	-3.3	-6.9#	6.4#	7.8*	-1.8#	7.1#	5.0	-0.9	-9.5#	6.9*	2.4	-1.4	0.3	-4.8	3.3	-2.4
STD ERR OF DP		2.7	2.2	2.0	2.0	1.0	0.9	3.5	0.6	1.9	2.6	1.6	1.6	3.4	3.6	1.4	3.6	4.1	3.1	3.2
STD ERR OF P	1.3	3.1	2.7	2.2	2.2	1.5	1.7	3.8	1.3	2.3	2.8	2.2	1.9	3.6	3.7	2.0	4.2	3.9	3.4	3.3
RESPONSE: 24 AGE: 17 TEXT: 16; 16 feet																				
DELTA-P	0.5	0.2	-0.4*	0.5	-0.2	-0.1	0.1	-0.3	-0.0	0.1	-0.5#	-0.2	0.3	-0.2	0.3	0.1	-0.1	-0.1	-0.4	0.4
STD ERR OF DP		0.4	0.2	0.3	0.2	0.2	0.2	0.3	0.1	0.5	0.2	0.2	0.2	0.4	0.5	0.2	0.4	0.4	0.2	0.6
STD ERR OF P	0.2	0.5	0.1	0.4	0.2	0.2	0.3	0.2	0.2	0.5	0.0	0.2	0.3	0.3	0.6	0.3	0.4	0.4	0.2	0.6
AGE: Ad																				
DELTA-P	0.6	-0.4	0.2	-0.1	0.3	0.0	-0.0	-0.3	0.1	-0.6#	0.2	0.2	0.2	-0.6#	-0.1	0.3	0.2	-0.6#	0.1	-0.1
STD ERR OF DP		0.3	0.5	0.3	0.4	0.2	0.2	0.4	0.1	0.2	0.6	0.4	0.4	0.2	0.5	0.2	0.6	0.2	0.6	0.5
STD ERR OF P	0.2	0.2	0.6	0.3	0.4	0.3	0.3	0.3	0.3	0.0	0.6	0.6	0.4	0.0	0.5	0.3	0.7	0.0	0.7	0.5
RESPONSE: 25 AGE: 17 TEXT: 12; 12 feet																				
DELTA-P	4.0	0.8	-1.4	0.7	0.1	-0.1	0.1	4.4#	-0.5	-0.2	3.6#	0.6	-1.3#	1.6	-1.2	-0.1	-1.2	1.8	1.5	-2.0
STD ERR OF DP		0.9	0.8	0.8	0.7	0.5	0.5	1.7	0.2	1.1	1.3	0.8	0.5	1.0	1.1	0.5	1.1	1.2	1.9	1.0
STD ERR OF P	0.5	1.1	1.0	1.0	0.8	0.8	0.6	1.9	0.5	1.1	1.4	1.1	0.5	1.0	1.1	0.7	1.2	1.3	2.1	1.0
AGE: Ad																				
DELTA-P	8.4	2.4	0.2	-1.1	-1.0	-2.8#	2.6#	4.7	-0.5	1.8	0.1	-0.4	-1.7	2.9	-0.6	-0.2	0.9	0.0	0.2	-2.2
STD ERR OF DP		1.5	1.5	1.2	1.3	0.7	0.7	2.4	0.4	1.2	1.7	1.0	1.3	3.1	1.6	0.9	1.9	2.4	2.0	1.7
STD ERR OF P	0.8	1.7	1.9	1.3	1.5	0.9	1.2	2.7	0.9	1.5	1.7	1.3	1.5	3.3	1.5	1.0	2.0	2.6	2.3	2.0
RESPONSE: 26 AGE: 17 TEXT: 11; 11 feet																				
DELTA-P	4.7	2.5	0.5	-0.5	-2.0*	0.4	-0.3	-1.8	0.1	0.9	0.6	-0.1	0.1	1.7	0.0	0.4	-1.9	-2.0	1.1	-0.3
STD ERR OF DP		1.6	1.0	0.9	0.9	0.5	0.5	1.2	0.2	1.9	1.4	0.8	0.5	2.4	1.8	0.8	1.0	1.2	1.4	1.3
STD ERR OF P	0.6	1.9	1.1	1.0	1.0	0.8	0.8	1.1	0.7	2.0	1.5	1.1	0.7	2.4	1.7	1.2	1.0	1.2	1.5	1.4
AGE: Ad																				
DELTA-P	3.0	-0.4	0.9	0.1	-0.7	-0.6	0.6	-2.6#	0.5#	-1.2	0.2	-0.4	1.7	-2.4#	1.1	1.1	-0.2	-0.3	-1.6	-0.2
STD ERR OF DP		0.8	1.0	0.8	0.7	0.5	0.5	0.6	0.1	0.8	1.0	0.6	1.1	0.7	1.8	0.6	1.0	1.2	0.9	1.5
STD ERR OF P	0.5	0.9	1.3	0.9	0.7	0.6	0.8	0.5	0.6	0.9	1.1	0.6	1.4	0.4	1.9	0.8	1.0	1.3	0.8	1.8
RESPONSE: 27 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	18.5	3.4	-0.7	-0.2	-1.8	0.6	-0.5	10.6#	-1.8#	8.8#	5.6	-0.6	-3.1#	5.4	1.8	0.2	-1.3	5.5	-4.7	-2.9
STD ERR OF DP		1.8	1.6	1.8	1.6	1.0	0.9	3.2	0.5	3.3	3.0	1.1	1.0	4.3	4.6	1.2	2.3	3.0	2.7	2.4
STD ERR OF P	1.0	1.9	1.9	2.2	1.9	1.3	1.5	3.5	1.0	3.6	3.1	1.5	1.4	4.5	4.9	1.5	2.4	3.1	2.9	2.4
AGE: Ad																				
DELTA-P	13.4	1.3	0.2	-1.9	0.9	3.3#	-3.1#	0.2	-0.7	3.0*	-1.9	1.4	-3.2*	2.5	0.9	-1.7	-0.9	4.4	-0.9	1.3
STD ERR OF DP		1.7	1.7	1.3	1.6	0.8	0.8	2.8	0.5	1.4	2.1	1.4	1.5	3.4	2.9	1.2	2.1	4.6	2.4	3.0
STD ERR OF P	0.9	1.9	2.1	1.4	1.8	1.5	0.9	2.7	1.1	1.7	2.3	1.8	1.6	3.6	3.0	1.4	2.0	4.7	2.6	3.2

EXERCISE: BK15

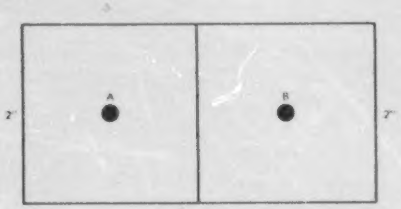
To set up a tent having the dimensions shown in the drawing, the vertical tent poles used should be how many feet high?

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	14.5	1.4	1.3	-0.2	-2.2	-3.9#	3.7#	-2.8	0.2	2.7	3.0	2.0	-2.2#	-0.8	4.8	0.4	-1.2	-4.5*	2.6	-1.6
STD ERR OF DP		1.8	1.8	1.3	1.5	0.9	0.9	1.8	0.4	3.9	2.3	1.2	0.8	2.2	4.4	1.1	2.2	2.2	2.9	2.6
STD ERR OF P	0.9	2.0	2.2	1.4	1.8	1.2	1.3	1.8	1.1	4.2	2.4	1.6	1.1	2.4	4.6	1.4	2.2	2.3	3.3	2.7
AGE: Ad																				
DELTA-P	18.5	0.8	-4.2*	1.9	1.7	-6.9#	6.4#	8.8*	-1.0	2.4	1.9	-3.3#	-2.1	5.0	0.9	1.1	0.7	0.2	-4.3*	-4.1
STD ERR OF DP		3.0	1.8	2.1	2.0	1.1	1.1	4.3	0.6	2.0	2.3	1.3	1.8	4.0	3.5	1.2	3.4	3.8	2.1	2.6
STD ERR OF P	1.3	3.6	1.9	2.6	2.1	1.4	1.9	4.8	1.3	2.7	2.8	1.5	1.8	4.4	3.8	1.8	3.8	4.1	2.2	2.4

RK16
OBJ III

Shown below are two squares. A and B are the centers of the squares. What is the distance in inches from A to B?



ANSWER ______________________

SCORING GUIDE
RK16
K51020-12

00 = No Response

10 = 1 3/4 to 2 1/4 inches; 1 3/4 to 2 1/4

20 = 4; 4 inches

21 = Other Unacceptable

39 = I Don't Know.

Report #: RK16

NAEP #: K51020-12

Content Area: K. GEOMETRY

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		04-23	05-02
National P-value:			
	RK16	36.16	60.40

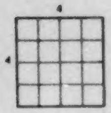
Timing: (in seconds)			
	Stimulus:	10	8
	Response:	31	26
RK16	Exercise total:	41	34

EXERCISE: BK16

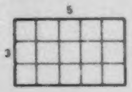
Shown below are two squares. A and B are the centers of the squares. What is the distance in inches from A to B?

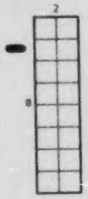
	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	2.1	-0.4	0.9	-0.4	0.0	0.6	-0.5	1.8	-0.6*	3.4	-1.7*	-0.3	-1.3*	0.7	1.5	-0.2	0.7	-0.1	-0.9	-0.7
STD ERR OF DP		0.6	0.6	0.6	0.6	0.4	0.4	1.0	0.2	2.4	0.5	0.6	0.4	1.1	1.2	0.5	1.3	0.9	0.6	0.7
STD ERR OF P	0.3	0.6	0.7	0.8	0.6	0.6	0.3	1.1	0.4	2.6	0.4	0.6	0.3	1.1	1.3	0.6	1.5	1.0	0.5	0.8
AGE: 13																				
DELTA-P	1.8	0.2	-0.3	0.7	-0.9	.2	-0.2	5.7*	-1.1*	2.5	0.4	-0.6*	-1.3*	9.0*	0.0	-0.8	-0.9	-0.2	-1.2*	-1.0*
STD ERR OF DP		0.5	0.6	0.8	0.5	.3	0.3	1.2	0.2	1.7	0.9	0.3	0.2	3.4	0.9	0.4	0.6	0.8	0.5	0.4
STD ERR OF P	0.4	0.4	0.6	1.1	0.5	0.5	0.4	1.4	0.3	1.7	0.9	0.5	0.3	3.7	0.8	0.4	0.5	0.8	0.4	0.3
RESPONSE: 10* AGE: 9	TEXT: 1 3/4 to 2 1/4 inches; 1 3/4 to 2 1/4																			
DELTA-P	36.2	-3.3	2.1	1.2	-0.3	4.7*	-4.4*	-18.5*	4.3*	-7.9	-6.3	1.2	8.5*	-10.7	-8.7	-0.2	4.5	-1.1	1.8	6.4
STD ERR OF DP		3.5	2.1	2.3	2.0	1.2	1.1	2.3	0.5	4.4	4.6	2.0	1.9	7.1	4.7	1.9	5.0	3.6	3.1	3.3
P-VALUE	36.2	32.9	38.3	37.3	35.9	40.8	31.7	17.7	40.5	28.3	29.9	37.4	44.6	25.5	27.5	36.0	40.6	35.1	37.9	42.5
STD ERR OF P	1.5	4.4	2.1	2.8	2.0	1.7	2.0	2.3	1.5	4.4	4.7	2.5	2.2	7.4	4.7	2.1	5.8	3.5	3.2	3.2
AGE: 13																				
DELTA-P	60.4	-10.1*	4.7	2.4	1.1	5.6*	-5.6*	-35.4*	6.4*	-14.9*	-13.7*	0.3	9.7*	-22.4*	-2.4	2.7	-1.2	-2.5	3.4	9.3*
STD ERR OF DP		3.1	2.7	2.7	3.1	1.1	1.0	2.5	0.9	4.4	3.5	1.8	1.4	5.6	4.9	2.3	3.5	3.8	2.8	3.6
P-VALUE	60.4	50.3	65.1	62.8	61.5	66.0	54.8	25.0	66.8	45.5	46.7	60.7	70.1	38.0	58.0	63.1	59.2	57.9	63.8	69.7
STD ERR OF P	1.7	3.3	3.0	3.5	3.5	2.0	2.0	2.6	1.6	4.6	3.9	2.3	1.8	6.0	5.0	2.7	3.8	4.4	3.1	3.7
RESPONSE: 20 AGE: 9	TEXT: 4; 4 inches;																			
DELTA-P	17.3	-5.2*	1.5	1.7	1.6	-1.4	1.3	-8.4*	1.9*	-4.4	-2.2	2.4	-1.0	-7.1*	-1.5	0.5	-4.4*	-2.0	4.4	6.4
STD ERR OF DP		1.3	1.8	1.4	2.1	0.9	0.8	1.9	0.5	2.9	3.2	1.7	1.5	2.8	2.7	1.6	1.6	3.2	3.1	3.5
STD ERR OF P	1.0	1.2	2.0	1.6	2.5	1.3	1.3	1.6	1.2	2.9	3.2	1.9	1.6	2.8	2.4	1.9	1.5	3.4	3.4	3.8
AGE: 13																				
DELTA-P	23.5	0.3	0.1	-1.3	1.3	-4.4*	4.4*	6.2*	-1.5*	1.6	7.0*	2.1	-3.3*	2.3	1.9	-1.3	3.6	-0.5	-0.9	-2.4
STD ERR OF DP		1.9	1.9	1.7	2.7	0.9	0.8	2.9	0.5	4.0	3.1	1.6	1.1	3.3	3.5	1.7	3.0	3.8	2.6	3.5
STD ERR OF P	1.2	1.9	2.1	1.9	3.3	1.3	1.6	3.0	1.4	4.2	3.6	1.9	1.5	3.1	3.7	2.0	3.4	4.1	2.8	3.6
RESPONSE: 21 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	25.9	3.6	-1.9	-0.1	-1.7	0.8	-0.7	14.9*	-2.9*	3.0	11.7*	1.0	-0.2	9.1	7.4	-1.0	-1.9	1.4	-0.7	-5.8*
STD ERR OF DP		2.6	1.8	2.3	2.4	1.1	1.0	3.1	0.7	4.3	5.3	2.1	1.4	5.5	3.8	1.5	4.4	3.6	2.9	2.3
STD ERR OF P	1.3	3.1	1.7	2.9	2.7	1.4	1.9	3.6	1.3	4.5	5.6	2.5	1.7	6.0	4.0	1.4	5.1	3.8	3.1	2.3
AGE: 13																				
DELTA-P	7.9	5.1*	-2.8*	-0.1	-1.5	-0.0	0.0	10.7*	-1.5*	7.5*	1.7	-0.4	-1.4*	2.4	-1.0	0.0	1.1	2.0	-0.7	-2.9
STD ERR OF DP		1.6	0.8	1.0	1.1	0.5	0.5	2.6	0.4	3.5	1.9	0.7	0.6	2.5	1.9	1.0	1.5	1.6	1.4	1.6
STD ERR OF P	0.7	1.9	0.7	1.1	1.3	0.8	0.8	2.9	0.5	3.7	1.9	1.0	0.8	2.7	2.0	1.3	1.6	1.7	1.4	1.6
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	18.5	5.3	-2.7	-2.4	0.3	-4.6*	4.3*	10.3*	-2.7*	6.0	-1.5	-4.4*	-6.0*	8.1	1.3	0.9	1.2	1.8	-4.5	-6.2*
STD ERR OF DP		2.8	1.7	1.8	2.1	1.0	0.9	3.7	0.7	3.6	3.3	1.1	1.3	6.6	5.1	1.7	2.5	2.6	2.3	2.1
STD ERR OF P	1.3	3.5	1.6	2.1	2.3	1.1	1.9	4.3	1.2	3.6	3.6	1.6	1.2	6.9	5.5	2.3	2.7	2.7	2.0	1.9
AGE: 13																				
DELTA-P	6.3	4.5*	-1.7	-1.8	0.0	-1.3*	1.3*	12.7*	-2.4*	3.3	4.6*	-1.4*	-3.7*	8.7*	1.6	-0.6	-2.7*	1.2	-0.6	-3.1*
STD ERR OF DP		1.4	1.0	0.9	1.4	0.6	0.6	2.0	0.4	1.8	2.0	0.7	0.7	3.2	2.3	0.8	1.1	2.8	1.6	1.0
STD ERR OF P	0.7	1.7	1.0	1.0	1.6	0.8	1.0	2.3	0.5	1.7	2.3	0.9	0.5	3.3	2.4	0.9	1.1	3.0	1.6	1.0

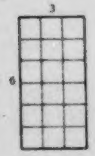
RK17
OBJ V



Which one of the figures below has the same area as the figure above?

○ 

● 

○ 

○ I don't know.

Report #: RK17

NARP #: K52002-1

Content Area: K. GEOMETRY

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age: 9
Package-Exercise: 04-13
National P-value:
RK17 38.18

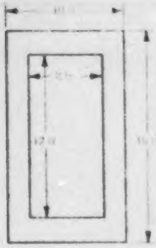
Timing: (in seconds)
Stimulus: 7
Response: 32
I don't know: 5
Pause: 6
RK17 Exercise total: 50

EXERCISE: RK17

Which one of the figures below has the same area as the figure above (square of 16 sq. units--4 x 4)

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: [illegible] TEXT: No Response.																				
DELTA-P	0.9	0.2	-0.8*	-0.1	0.7	0.7*	-0.7*	1.4*	-0.4*	1.1	-0.5	-0.1	-0.2	2.6	0.6	-0.2	0.1	0.2	-0.9*	-0.7*
STD ERR OF DP		0.4	0.2	0.4	0.5	0.2	0.2	0.5	0.2	1.2	0.5	0.5	0.3	1.4	0.6	0.3	0.6	0.8	0.2	0.3
STD ERR OF P	0.2	0.4	0.1	0.4	0.6	0.4	0.1	0.7	0.2	1.2	0.4	0.6	0.4	1.5	0.6	0.3	0.7	0.8	0.0	0.2
RESPONSE: 01 AGE: 9 TEXT: Rectangle of 15 sq. units--5 x 3																				
DELTA-P	44.2	4.0	-2.6	0.3	-1.3	-1.1	1.0	13.3*	-2.1*	3.8	5.9	5.7*	-2.4	8.4	2.4	-1.0	-3.8	10.9*	-4.6	-3.2
STD ERR OF DP		2.8	2.6	2.5	2.3	1.4	1.3	2.5	0.7	4.4	5.0	2.2	1.7	6.1	4.3	2.1	3.9	3.3	4.3	3.1
STD ERR OF P	1.5	3.1	2.8	3.0	3.4	1.9	2.2	2.6	1.7	4.8	5.2	2.3	2.4	6.5	4.5	2.3	4.3	3.2	4.8	3.3
RESPONSE: 02* AGE: 9 TEXT: Rectangle of 16 sq. units--2 x 8																				
DELTA-P	38.2	-6.2*	2.7	0.4	3.0	-0.7	0.7	-18.5*	4.0*	-10.3*	-3.8	-1.9	7.3*	-13.7	-5.2	2.0	3.1	-14.6*	5.5	8.4*
STD ERR OF DP		2.7	2.9	2.6	2.9	1.5	1.4	2.5	0.8	3.8	5.0	2.2	1.8	7.3	4.2	2.3	3.0	3.8	4.4	3.3
P-VALUE	38.2	32.0	40.9	38.5	41.2	37.5	38.8	19.6	42.1	27.8	34.4	36.3	45.5	24.5	33.0	40.2	41.3	23.6	43.7	46.6
STD ERR OF P	1.6	2.9	3.2	3.2	3.4	2.0	2.3	2.6	1.8	4.2	5.4	2.6	2.2	8.0	4.5	2.8	3.2	3.6	4.7	3.4
RESPONSE: 03 AGE: 9 TEXT: Rectangle of 18 sq. units--6 x 3																				
DELTA-P	5.4	1.9	0.3	-0.5	-1.6	1.4*	-1.4*	2.5	-0.7	7.5*	0.3	-0.1	-0.8	3.4	0.4	-1.3*	-0.3	2.0	1.2	-1.4
STD ERR OF DP		1.4	1.1	0.9	0.8	0.5	0.5	1.3	0.4	2.7	1.6	0.9	0.7	2.3	1.8	0.6	1.7	1.8	1.2	1.1
STD ERR OF P	0.6	1.8	1.2	1.0	0.8	0.9	0.7	1.5	0.7	2.9	1.8	1.3	0.8	2.4	1.8	0.9	2.0	2.0	1.3	1.1
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	11.3	0.0	0.3	-0.1	-0.2	-0.4	0.3	1.4	-0.7*	-2.1	-2.0	-3.6*	-3.9*	-0.6	1.8	0.5	0.8	1.5	-1.2	-3.2*
STD ERR OF DP		1.4	1.9	1.4	1.5	0.7	0.6	1.8	0.3	3.2	2.7	1.1	0.9	3.0	1.5	1.3	2.5	2.2	1.9	1.4
STD ERR OF P	0.9	1.5	2.3	1.6	1.7	1.1	1.1	1.9	1.0	3.3	2.8	1.3	1.0	3.1	1.3	1.8	2.8	2.2	1.9	1.5

RK18
OBJ IV



What is the area of the shaded portion of the figure?

ANSWER ____________________

Report #: RK18

NAEP #: K52008-34

Content Area: E. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		08-02	05-05
National P-value:			
	RK18	17.63	26.40

Timing: (in seconds)			
	Stimulus:	3	3
	Response:	60	*
RK18	Exercise total:	63	*

*Time not limited by paced tape.

SCORING GUIDE
RK18
K52008-34

00 = No Response

10 = 54 square feet

11 = 54

12 = Correct process with no answer or wrong answer; e.g., (10 x 15) - (8 x 12) = X; 54 with wrong units

20 = 60; 60 square feet; (2 x 15) + (3 x 10)

21 = 120; 120 square feet; 2(15 x 2) + 2(3 x 10)

22 = 96; 96 square feet with no work shown; attempt to multiply 8 by 12

23 = 150; attempt to multiply 10 by 15

24 = 6; 3 x 2

25 = Other Unacceptable

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

EXERCISE: BK18

What is the area of the shaded portion of the figure shown above? (rectangle 8 feet by 12 feet shown inside rectangle 10 feet by 15 feet)

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	1.9	0.9	-0.8	0.1	-0.1	0.1	-0.1	1.5	-0.3*	0.1	0.7	-0.4	-0.3	1.0	0.3	-0.2	0.3	-0.4	0.4	-0.9
STD ERR OF DP		0.9	0.5	0.5	0.5	0.4	0.4	1.0	0.1	1.0	0.9	0.4	0.4	0.9	0.6	0.4	0.9	1.2	1.5	0.6
STD ERR OF P	0.4	1.1	0.6	0.6	0.4	0.6	0.5	1.1	0.4	1.1	0.9	0.5	0.5	0.9	0.6	0.5	1.0	1.3	1.7	0.6
AGE: Ad																				
DELTA-P	1.1	1.3	-0.1	-0.8	-0.1	-0.0	0.0	-0.2	0.1	0.5	-0.9	0.4	-0.8	-0.7	7.0	-0.7	0.1	-0.2	-0.8	-1.1*
STD ERR OF DP		1.6	0.6	0.5	0.6	0.4	0.4	0.4	0.1	0.9	0.5	0.5	0.5	0.6	4.3	0.5	1.0	0.8	0.5	0.5
STD ERR OF P	0.5	2.0	0.6	0.2	0.4	0.8	0.3	0.7	0.5	1.3	0.1	0.5	0.3	0.4	4.7	0.3	1.0	0.7	0.2	0.0
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses (Only categories 10 and 11 were considered to be the acceptable responses.)																				
DELTA-P	17.6	-6.9#	0.3	1.3	4.2*	3.5#	-3.1#	-14.1#	2.9#	-14.0#	-11.3#	-4.2#	10.6#	-8.7#	-2.2	-0.5	1.1	-1.9	-0.4	9.8#
STD ERR OF DP		2.4	1.9	1.7	1.9	0.9	0.8	1.4	0.4	1.7	1.7	1.4	1.1	3.0	3.6	1.3	3.8	2.6	3.0	3.3
P-VALUE	17.6	10.7	18.0	19.0	21.9	21.1	14.5	3.6	20.6	3.6	6.4	13.5	28.3	8.9	15.4	17.1	18.7	15.7	17.3	27.4
STD ERR OF P	1.1	2.6	2.2	1.9	2.1	1.5	1.2	0.9	1.3	1.5	1.5	1.4	1.9	3.0	3.8	1.3	4.3	2.6	3.2	3.5
AGE: Ad																				
DELTA-P	26.4	-4.7	1.2	-1.3	4.1	9.4#	-8.8#	-23.2#	3.1#	-10.8#	-7.5#	0.8	16.3#	-13.2#	-12.1#	-2.3	4.5	-1.7	-3.2	23.4#
STD ERR OF DP		2.4	2.3	2.3	2.6	1.2	1.1	2.2	0.6	1.9	2.1	1.7	2.2	3.6	3.6	1.9	4.1	3.7	3.6	3.2
P-VALUE	26.4	21.7	27.6	25.1	30.5	35.8	17.6	3.2	29.5	15.6	18.9	27.2	42.7	13.2	14.3	24.1	30.9	24.7	23.3	49.8
STD ERR OF P	1.4	2.6	2.7	2.7	3.1	2.1	1.4	1.7	1.5	2.1	2.2	2.1	2.9	3.7	3.5	2.3	4.4	4.2	3.7	2.9
RESPONSE: 10 AGE: 17 TEXT: 54 square feet																				
DELTA-P	15.7	-6.4#	0.5	2.0	2.8	3.2#	-2.9#	-12.9#	2.9#	-12.3#	-10.6#	-3.3#	9.5#	-8.7#	-1.8	0.6	1.2	-2.2	-1.2	7.3#
STD ERR OF DP		2.1	2.1	1.5	1.8	0.8	0.8	1.2	0.4	1.7	1.6	1.3	1.1	2.3	3.4	1.3	3.5	2.6	2.4	2.9
STD ERR OF P	1.1	2.4	2.5	1.7	2.1	1.6	1.1	0.7	1.2	1.5	1.4	1.3	1.8	2.2	3.7	1.3	4.0	2.5	2.6	3.2
AGE: Ad																				
DELTA-P	21.6	-5.4#	1.5	-0.7	3.8	7.3#	-6.8#	-19.3#	2.8#	-8.3#	-6.0#	-0.2	14.1#	-13.4#	-10.0#	-2.3	5.1	-3.7	0.7	19.9#
STD ERR OF DP		2.0	2.5	2.1	2.5	1.1	1.0	1.8	0.6	1.9	1.9	1.5	2.4	2.2	3.3	1.7	4.1	4.1	3.5	3.3
STD ERR OF P	1.3	1.9	3.0	2.4	3.1	2.0	1.3	1.3	1.5	1.9	2.0	1.9	3.2	1.9	3.1	1.8	4.5	4.6	3.7	3.5
RESPONSE: 11 AGE: 17 TEXT: 54																				
DELTA-P	2.0	-0.5	-0.2	-0.7	1.4*	0.2	-0.2	-1.1*	0.0	-1.7#	-0.7	-0.9	1.1#	-0.0	-0.5	-1.1#	-0.0	0.3	0.8	2.5
STD ERR OF DP		0.6	0.6	0.5	0.7	0.3	0.3	0.6	0.2	0.4	0.7	0.5	0.4	1.0	0.9	0.4	0.9	1.0	1.2	1.5
STD ERR OF P	0.3	0.7	0.6	0.6	0.4	0.5	0.4	0.5	0.4	0.3	0.7	0.5	0.6	1.0	0.9	0.3	1.0	1.1	1.3	1.6
AGE: Ad																				
DELTA-P	4.8	0.7	-0.2	-0.5	0.3	2.1#	-2.0#	-3.8#	0.3	-2.5#	-1.5	1.0	2.2*	0.3	-2.1	0.0	-0.6	2.0	-3.8#	3.5*
STD ERR OF DP		1.1	0.5	0.8	1.2	0.5	0.5	1.0	0.3	0.7	1.1	1.2	1.0	3.0	1.4	0.7	1.3	2.3	0.7	1.4
STD ERR OF P	0.6	1.2	0.8	0.9	1.6	0.8	0.7	0.7	0.6	0.7	1.1	1.4	1.2	3.3	1.4	0.9	1.4	2.4	0.5	1.4
RESPONSE: 12 AGE: 17 TEXT: Correct process with no answer or wrong answer; e.g., (10 x 15) - (8 x 12) = X; 54 with wrong units																				
DELTA-P	12.1	-4.4#	-0.1	1.4	2.4	0.9	-0.8	-8.8#	1.6#	-6.0#	-7.9#	-0.8	5.0#	-8.0#	0.3	0.7	-2.9	2.8	-2.0	6.8#
STD ERR OF DP		1.6	1.4	1.7	1.7	1.0	0.9	1.5	0.4	2.2	1.3	1.2	0.8	1.5	4.4	1.2	1.5	3.4	2.2	2.4
STD ERR OF P	0.9	1.6	1.5	2.2	2.0	1.4	1.2	1.4	1.1	2.2	1.4	1.6	1.2	1.1	4.9	1.3	1.6	3.6	2.3	2.5
AGE: Ad																				
DELTA-P	7.3	-2.7*	1.5	-0.5	1.3	-0.5	0.5	-4.5#	0.6	-3.3#	0.5	-0.2	4.0#	-0.3	0.6	-0.3	-2.1	3.6	0.2	0.2
STD ERR OF DP		1.1	0.9	1.0	1.2	0.7	0.6	1.5	0.3	0.8	1.4	0.8	1.2	1.9	1.5	0.9	1.6	2.1	1.9	1.6
STD ERR OF P	0.6	1.2	1.0	1.3	1.5	1.0	0.8	1.6	0.7	0.7	1.4	1.1	1.6	2.0	1.5	1.2	1.6	2.2	1.9	1.6
RESPONSE: 20 AGE: 17 TEXT: 60; 60 sq. ft.; (2 x 15) + (3 x 10)																				
DELTA-P	34.1	4.4	1.0	0.5	-5.3*	0.8	-0.8	13.4#	-2.4#	12.9#	8.1#	2.7	-8.9#	3.6	3.6	1.1	1.3	2.8	-5.9	-6.7
STD ERR OF DP		3.6	2.0	2.0	2.3	1.2	1.1	3.0	0.7	4.6	3.1	1.7	1.4	4.7	4.2	1.6	3.3	4.4	4.1	4.0
STD ERR OF P	1.4	4.5	1.9	2.1	2.6	1.9	1.7	3.4	1.4	4.8	3.7	2.1	1.6	4.9	4.5	1.8	3.8	4.7	4.4	4.1

EXERCISE: MK18

What is the area of the shaded portion of the figure shown above? (rectangle 8 feet by 12 feet shown inside rectangle 10 feet by 15 feet)

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad	TEXT: 60; 60 sq. ft.; (2 x 15) + (3 x 10)																			
DELTA-P	30.0	2.8	1.0	0.2	-3.6	-1.8	1.6	15.3#	-2.0#	5.3#	2.6	0.8	-8.2#	2.8	4.8	-0.6	1.1	0.9	3.7	-7.7#
STD ERR OF DP		2.8	2.3	1.8	2.0	1.4	1.3	3.9	0.6	1.6	2.7	2.0	2.2	[illegible]	4.0	1.6	4.4	3.5	2.8	2.6
STD ERR OF P	1.3	3.3	2.7	1.9	2.2	1.9	1.8	4.1	1.3	1.9	3.0	2.6	2.3	[illegible]	4.2	1.9	4.6	3.9	3.0	2.7
RESPONSE: 21 AGE: 17	TEXT: 120; 120 sq. ft.; 2(15 x 2) + 2(3 x 10)																			
DELTA-P	0.6	0.1	-0.2	-0.2	0.4	0.4	-0.3	-0.4*	0.1#	-0.5#	0.6	-0.3	0.1	-0.2	-0.6#	0.4	0.0	-0.6#	-0.4	0.3
STD ERR OF DP		0.4	0.2	0.2	0.3	0.2	0.2	0.2	0.0	0.2	0.7	0.2	0.2	0.3	0.2	0.3	0.4	0.2	0.3	0.6
STD ERR OF P	0.2	0.5	0.2	0.3	0.4	0.4	0.1	0.2	0.2	0.1	0.7	0.2	0.3	0.3	0.0	0.4	0.4	0.0	0.3	0.7
AGE: Ad																				
DELTA-P	0.7	-0.5*	1.0*	-0.4	-0.3	0.0	-0.0	0.8	-0.1	-0.3	0.0	-0.1	0.3	-0.4	0.4	-0.0	-0.3	0.4	-0.0	0.2
STD ERR OF DP		0.2	0.5	0.2	0.3	0.2	0.2	0.7	0.1	0.3	0.4	0.3	0.5	0.3	0.7	0.2	0.3	1.0	0.6	0.8
STD ERR OF P	0.2	0.2	0.7	0.2	0.3	0.3	0.3	0.8	0.2	0.3	0.5	0.3	0.6	0.3	0.7	0.3	0.3	1.1	0.6	0.8
RESPONSE: 22 AGE: 17	TEXT: 96; 96 square feet with no work shown; attempt to multiply 8 by 12																			
DELTA-P	0.2	-0.2	-0.2	0.2	0.1	-0.0	0.0	-0.2	0.0*	-0.2	-0.2	-0.0	0.1	-0.2	-0.2	-0.2	0.3	-0.2	-0.2	0.7
STD ERR OF DP		0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.6
STD ERR OF P	0.1	0.0	0.0	0.3	0.2	0.1	0.2	0.0	0.1	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.6
AGE: Ad																				
DELTA-P	0.2	0.1	-0.2*	-0.0	0.1	-0.0	0.0	0.2	-0.0	0.0	0.1	-0.1	0.0	0.3	-0.2*	0.0	0.3	-0.2*	-0.2*	-0.2*
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.4	0.0	0.1	0.3	0.1	0.2	0.4	0.1	0.1	0.4	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.2	0.2	0.1	0.1	0.4	0.1	0.2	0.3	0.1	0.2	0.5	0.0	0.1	0.4	0.0	0.0	0.0
RESPONSE: 23 AGE: 17	TEXT: 150; attempt to multiply 10 by 15																			
DELTA-P	4.3	2.3	-0.7	-1.1	-0.1	-1.6#	1.5#	1.2	-0.4	0.8	5.1#	-0.1	-1.9#	1.1	0.1	-0.1	-2.5#	3.1	2.4	-1.9
STD ERR OF DP		1.6	0.7	1.0	0.8	0.6	0.5	1.3	0.2	1.9	1.9	0.7	0.6	1.3	2.2	0.7	0.7	2.3	2.0	1.0
STD ERR OF P	0.6	2.0	0.6	1.2	0.7	0.4	1.1	1.4	0.7	2.0	2.2	1.0	0.6	1.3	2.4	0.9	0.5	2.5	2.3	0.9
AGE: Ad																				
DELTA-P	2.1	-0.2	-0.1	-0.1	0.4	-0.3	0.3	-0.1	0.1	0.2	0.7	-0.5	-0.0	-1.6#	-1.5#	-0.2	0.4	2.2	0.7	0.2
STD ERR OF DP		0.5	0.6	0.5	0.6	0.3	0.3	1.3	0.2	0.7	[illegible]	0.6	0.7	0.5	0.5	0.4	1.1	1.4	1.1	1.3
STD ERR OF P	0.3	0.6	0.7	0.5	0.7	0.5	0.4	1.4	0.4	0.8	1.0	0.7	0.7	0.4	0.5	0.5	1.2	1.5	1.1	1.5
RESPONSE: 24 AGE: 17	TEXT: 6; 3 x 2																			
DELTA-P	10.0	0.3	-1.9	0.1	1.5	-1.8*	1.7*	2.2	-0.2	-0.3	-2.3	0.9	-0.9	3.7	-1.6	0.5	-1.9	-2.6	2.5	-1.1
STD ERR OF DP		1.3	1.2	1.4	1.7	0.8	0.7	2.0	0.4	2.4	1.6	0.8	0.8	2.8	2.2	1.1	2.0	2.3	2.6	1.6
STD ERR OF P	0.8	1.3	1.2	1.8	2.1	1.1	1.1	2.2	0.9	2.5	1.7	1.1	1.1	3.0	2.3	1.4	2.0	2.4	2.9	1.7
AGE: Ad																				
DELTA-P	9.2	2.0	-2.9#	1.7	-0.6	-1.2	1.1	4.7	-0.3	-0.6	3.6	1.7	-4.2#	2.8	2.9	0.2	0.1	-0.2	2.1	-5.9#
STD ERR OF DP		1.3	1.1	1.1	1.0	0.7	0.6	2.5	0.3	1.0	2.0	1.4	0.9	2.2	1.9	0.8	1.6	3.7	2.1	1.0
STD ERR OF P	0.6	1.5	1.3	1.3	1.1	1.1	0.8	2.7	0.7	1.1	2.1	1.6	0.9	2.3	2.0	1.0	1.6	3.8	2.2	1.0
RESPONSE: 25 AGE: 17	TEXT: Other Unacceptable																			
DELTA-P	5.4	-1.1	-0.3	0.0	1.3	1.4*	-1.3*	-2.6#	0.5#	-0.4	0.4	0.6	0.2	-2.1*	0.2	-0.0	1.8	1.3	1.2	-2.0
STD ERR OF DP		1.0	0.8	0.8	0.8	0.6	0.5	0.7	0.2	1.7	1.1	0.7	0.5	1.0	1.1	[illegible]	2.2	1.0	1.7	1.1
STD ERR OF P	0.5	1.1	1.0	0.9	0.9	0.9	0.6	0.6	0.6	1.7	1.2	0.8	0.8	1.0	1.1	1.0	2.4	0.9	1.7	1.1
AGE: Ad																				
DELTA-P	7.9	-0.3	1.4	0.4	-1.6	-0.9	0.9	-4.0*	0.8#	-0.3	0.5	-1.1	1.7	-0.6	-0.9	1.6	-3.7*	-2.9	-0.9	2.0
STD ERR OF DP		1.2	1.5	1.3	1.0	0.7	0.6	1.6	0.3	1.1	1.4	0.9	1.0	2.0	2.1	0.8	1.6	2.1	1.7	2.6
STD ERR OF P	0.7	1.3	1.9	1.5	1.0	0.9	1.1	1.8	0.8	1.3	1.5	1.2	1.4	2.0	2.2	0.9	1.7	2.2	1.9	3.0

EXERCISE: RK18

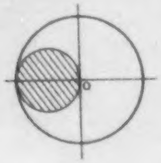
What is the area of the shaded portion of the figure shown above? (rectangle 8 feet by 12 feet shown inside rectangle 10 feet by 15 feet)

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	13.7	4.8*	3.0	-2.4	-4.4*	-3.6*	3.3*	7.8*	-1.9*	7.5*	6.8*	1.5	-4.3*	9.8*	0.2	-1.6	2.5	-4.4	2.3	-5.0*
STD ERR OF DP		1.8	1.6	1.3	1.5	0.8	0.8	2.3	0.4	2.9	2.2	1.2	0.9	2.7	2.6	1.3	2.3	2.4	2.4	1.8
STD ERR OF P	0.9	2.0	1.8	1.6	1.8	1.2	1.1	2.5	0.9	3.2	2.5	1.6	1.0	3.0	2.5	1.6	2.5	2.2	2.6	1.9
AGE: Ad																				
DELTA-P	15.2	2.3	-2.9	0.7	0.3	-4.7*	4.4*	10.8*	-2.3*	9.2*	0.5	-1.9	-9.1*	10.8*	-1.0	2.4	-0.3	-2.0	-1.6	-11.1*
STD ERR OF DP		2.0	1.9	2.5	1.6	0.9	0.9	3.1	0.6	1.8	1.8	1.7	1.6	3.2	3.4	1.7	2.6	2.5	2.9	1.8
STD ERR OF P	1.2	2.0	2.2	3.3	1.6	1.6	1.4	3.1	1.3	2.2	2.2	2.4	1.3	3.4	3.4	2.3	2.8	2.5	3.0	1.6

RK19
OBJ IV

What fractional part of the large circle is shaded?



ANSWER ____________________

Report #: RK19

NAEP #: K52026-123

Content Area: E. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		9	13	17
Age:				
Package-Exercise:		05-08	02-29	02-17
National P-value:	RK19	10.82	57.52	69.77

Timing: (in seconds)

	Stimulus:	3	3	3
	Response:	51	50	50
RK19	Exercise total:	54	53	53

SCORING GUIDE
RK19
K52026-123

00 = No Response

10 = 1/4; 25%; .25; 2/8

20 = 1/3; 33%; 33 1/3; 2/6

21 = Other Unacceptable

22 = 1/2; left half; left side; left part; west; left

39 = I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
EXERCISE: RK19																				
What fractional part of the large circle is shaded?																				
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	3.8	0.0	1.9	-1.4	-0.6	1.2#	-1.2#	0.9	-1.3	1.9	-0.5	-1.1	-1.3	2.8	8.8	-0.8	-1.8	-0.6	-2.9#	-1.2
STD ERR OF DP		1.0	2.1	1.0	1.2	0.5	0.4	1.3	0.7	2.1	1.7	0.7	0.8	2.2	6.6	0.9	1.1	1.2	1.1	1.2
STD ERR OF P	0.8	0.8	2.8	0.8	1.2	1.0	0.9	1.2	0.5	2.5	1.6	0.8	0.7	2.4	7.2	0.8	0.8	1.1	0.9	1.0
AGE: 13																				
DELTA-P	2.3	-1.0	3.1	-1.0	-1.1	0.4	-0.4	1.4	-0.4	0.8	2.5	-0.4	-1.2	1.8	1.8	-1.8#	-2.1#	-0.1	5.1	-1.9*
STD ERR OF DP		0.8	2.0	0.8	0.9	0.4	0.4	1.5	0.3	0.9	1.6	0.4	0.6	1.4	1.9	0.7	0.7	1.2	3.5	0.8
STD ERR OF P	0.7	0.5	2.6	0.7	0.7	0.9	0.6	1.5	0.8	1.3	2.0	0.8	0.3	1.4	2.0	0.2	0.2	1.2	4.1	0.4
AGE: 17																				
DELTA-P	2.5	1.3	-0.7	0.4	-0.8	0.4	-0.3	6.5#	-1.3#	1.2	1.2	0.6	-1.5#	2.0	1.5	-1.9#	-1.8	14.9*	-0.6	-2.5#
STD ERR OF DP		2.0	0.8	1.1	0.7	0.6	0.5	2.3	0.4	2.3	2.1	0.7	0.5	1.6	2.2	0.7	0.9	7.0	1.1	0.7
STD ERR OF P	0.7	2.5	0.6	1.3	0.4	1.1	0.5	2.8	0.4	2.2	2.6	0.9	0.5	1.8	2.3	0.2	0.7	7.5	0.7	0.0
RESPONSE: 10* AGE: 9	TEXT: 1/4; 25%; .25; 2/8																			
DELTA-P	10.4	-6.7#	-2.2	2.2	6.9#	-0.8	0.8	-7.4#	2.2#	-8.1#	-6.8#	0.3	4.5#	-7.9#	-5.7	-0.5	4.2	-0.9	-1.1	8.2*
STD ERR OF DP		1.4	1.6	2.5	2.1	1.0	0.9	1.6	0.4	1.8	2.5	1.5	1.0	1.5	3.0	1.8	4.0	3.0	3.0	4.0
P-VALUE	10.4	3.8	8.2	12.6	17.3	9.6	11.3	3.0	12.6	2.3	3.7	10.7	14.9	2.5	4.7	10.0	14.6	9.5	9.3	18.6
STD ERR OF P	1.2	1.3	1.5	3.1	2.5	1.5	1.5	1.5	1.4	1.5	2.9	2.0	1.8	1.0	2.8	2.2	4.3	3.1	2.9	4.5
AGE: 13																				
DELTA-P	57.5	-12.3#	0.6	5.3*	4.6*	1.2	-1.2	-35.6#	7.7#	-20.1#	-14.3#	3.8*	10.1#	-28.1#	-3.8	-1.2	2.5	-2.4	10.8#	8.1*
STD ERR OF DP		2.4	3.3	2.3	2.1	1.4	1.4	2.2	0.8	2.9	3.5	1.7	1.3	4.6	5.5	2.2	4.3	3.6	4.0	3.4
P-VALUE	57.5	45.2	58.1	62.8	62.1	58.7	56.4	21.9	65.2	37.4	43.2	61.3	67.6	29.4	53.7	56.4	60.0	55.2	68.3	65.6
STD ERR OF P	1.5	2.5	4.1	2.6	2.1	1.9	2.1	2.0	1.4	3.2	4.0	2.4	1.6	4.8	6.0	2.5	4.7	3.4	4.3	3.3
AGE: 17																				
DELTA-P	69.8	-13.0#	-1.3	5.2#	5.8#	2.3*	-2.0	-29.4#	6.6#	-12.1*	-8.3#	-1.1	8.7#	-16.8#	0.2	4.3#	-1.3	-13.1*	2.5	8.6*
STD ERR OF DP		3.4	2.2	1.9	2.0	1.2	1.0	3.2	0.9	5.2	3.1	1.7	1.4	4.0	4.1	1.5	3.5	5.6	3.6	3.7
P-VALUE	69.8	56.8	68.5	75.0	75.6	72.1	67.8	40.4	76.4	57.7	61.5	68.7	78.5	52.9	70.0	74.1	68.5	56.7	72.3	78.3
STD ERR OF P	1.3	4.0	2.4	2.0	2.4	1.9	1.6	3.4	1.3	5.5	3.8	2.0	1.4	4.3	4.3	1.9	3.7	5.8	3.5	3.9
RESPONSE: 20 AGE: 9	TEXT: [illegible] 33%; 33 1/3; 2/6																			
DELTA-P	[illegible]	[illegible]	-0.4	0.1	0.9	0.5	-0.5	-0.1	0.1	0.3	-1.2*	-0.5	0.8	0.5	-0.8	-0.6	-0.7	1.7	1.7	-0.7
STD ERR OF DP		[illegible]	0.4	0.5	0.5	0.3	0.3	0.8	0.2	1.0	0.5	0.4	0.4	1.2	0.6	0.3	0.5	1.3	1.0	0.6
STD ERR OF P	[illegible]	[illegible]	0.4	0.6	0.6	0.5	0.3	0.8	0.3	1.1	0.4	0.5	0.6	1.3	0.5	0.3	0.6	1.4	1.1	0.5
AGE: 13																				
DELTA-P	[illegible]	[illegible]	-0.3	-0.0	-1.5#	0.4	-0.4	1.5	-0.3	-0.1	-0.7	-0.4	0.7	-0.2	0.3	0.0	0.3	1.1	-1.6	0.3
STD ERR OF DP		[illegible]	0.7	0.7	0.6	0.4	0.4	1.1	0.2	1.7	1.3	0.6	0.6	1.5	1.1	0.6	1.1	1.3	1.1	1.2
STD ERR OF P	[illegible]	1.1	0.7	0.8	0.6	0.6	0.5	1.2	0.4	1.6	1.4	0.7	0.8	1.5	1.0	0.7	1.2	1.4	1.2	1.3
AGE: 17																				
DELTA-P	3.3	1.9#	0.3	-1.1*	-0.6	-0.5	0.4	1.7*	-0.5#	0.4	1.7	0.5	-1.1#	2.8	-1.8*	0.3	0.5	-2.1#	-1.2	-0.4
STD ERR OF DP		0.6	0.6	0.5	0.6	0.3	0.3	0.8	0.2	1.2	1.3	0.6	0.4	1.4	0.8	0.4	1.1	0.7	0.7	1.1
STD ERR OF P	0.3	0.7	0.6	0.6	0.7	0.4	0.5	0.9	0.4	1.2	1.4	0.8	0.4	1.5	0.7	0.6	1.1	0.6	0.8	1.2
RESPONSE: 21 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	17.1	8.4#	-3.9*	0.6	-5.1#	-0.0	0.0	9.3#	-1.8#	5.0	-1.7	2.1	-1.2	5.8	3.2	1.2	1.3	-1.7	-1.3	-7.3#
STD ERR OF DP		2.0	1.9	2.3	1.8	0.8	0.8	2.4	0.6	4.1	3.3	1.7	1.3	3.7	3.1	1.7	3.2	2.8	3.5	2.3
STD ERR OF P	1.2	2.2	2.1	2.8	1.9	1.5	1.4	2.5	1.4	4.3	3.7	2.3	1.7	3.9	3.1	2.1	3.3	3.0	4.0	2.5
AGE: 13																				
DELTA-P	12.1	2.1	-1.0	0.0	-0.9	0.2	-0.2	8.1#	-1.7#	1.6	6.4*	-1.6	-2.0#	2.6	2.1	1.5	-0.7	-1.3	-4.4#	0.4
STD ERR OF DP		1.4	1.3	1.5	1.1	1.0	0.9	2.0	0.4	3.0	2.6	1.1	0.7	2.7	2.2	1.1	2.4	1.9	1.7	2.2
STD ERR OF P	0.8	1.5	1.5	1.9	1.1	1.1	1.3	2.2	0.8	3.0	2.9	1.4	1.0	2.8	2.5	1.4	2.7	1.9	1.7	2.3

EXERCISE: RK19

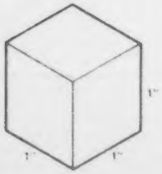
What fractional part of the large circle is shaded?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: 17	TEXT: Other Unacceptable																			
DELTA-P	8.3	3.1	1.5	-1.1	-2.5*	0.4	-0.3	7.6#	-1.7#	1.7	2.7	-0.4	-1.2	5.1*	0.1	-1.1	-0.5	-2.6	0.7	-1.1
STD ERR OF DP		1.8	1.4	1.2	1.0	0.7	0.6	1.9	0.5	2.1	1.8	0.8	0.6	2.2	3.1	0.7	1.5	1.7	1.9	2.3
STD ERR OF P	0.8	2.2	1.6	1.4	1.0	1.1	0.9	2.2	0.7	2.2	2.0	1.0	0.9	2.2	3.3	0.8	1.6	1.7	2.2	2.5
RESPONSE: 22 AGE: 9	TEXT: 1/2; left half; left side; left part; west; left																			
DELTA-P	32.6	2.6	1.7	-2.8	-1.6	0.4	-0.4	-7.4#	2.7#	4.5	-0.9	3.8	-0.3	-5.2	-2.1	2.6	-3.0	-2.0	-1.9	4.5
STD ERR OF DP		3.1	2.8	2.4	2.6	1.0	1.0	2.7	0.6	5.8	5.2	2.3	1.5	4.6	5.6	2.4	3.4	3.2	4.9	3.4
STD ERR OF P	1.6	3.7	3.4	2.7	2.8	1.9	1.8	3.1	1.7	6.1	5.4	2.9	2.1	4.8	5.9	3.2	3.2	3.4	5.1	3.8
AGE: 13																				
DELTA-P	16.6	8.9#	-1.1	-3.7#	-2.9	-1.9*	1.9*	20.5#	-4.4#	11.5#	9.3#	0.4	-6.9#	16.7#	-0.5	2.0	-2.8	4.8	-8.4#	-5.4#
STD ERR OF DP		1.6	1.6	1.4	1.6	0.9	0.9	2.6	0.6	3.1	3.1	1.5	0.9	4.1	2.6	1.5	2.6	3.1	1.8	1.7
STD ERR OF P	0.9	1.8	1.8	1.6	1.9	1.3	1.3	2.7	1.0	3.4	3.4	1.8	0.9	4.1	2.7	1.9	2.7	3.2	1.8	1.7
AGE: 17																				
DELTA-P	7.0	4.2	-0.4	-2.4#	-0.5	-0.5	0.5	13.4#	-2.5#	8.5#	1.0	0.3	-3.7#	6.5#	-1.4	-1.7*	1.3	2.1	-0.5	-2.1
STD ERR OF DP		2.1	1.3	1.0	1.2	0.7	0.6	2.6	0.5	3.4	1.6	0.8	0.7	2.3	2.2	0.8	1.8	3.4	1.7	1.6
STD ERR OF P	0.8	2.6	1.5	0.9	1.3	1.1	1.0	3.0	0.6	3.8	1.8	1.1	0.6	2.6	2.3	1.0	1.9	3.4	2.0	1.7
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	34.5	-3.8	2.9	1.2	-0.5	-1.2	1.2	4.6	-1.9*	-3.7	11.1#	-4.5*	-2.5	4.0	-3.3	-2.0	-0.0	3.5	5.5	-3.4
STD ERR OF DP		3.2	2.8	2.8	2.8	1.2	1.2	3.2	0.8	4.6	4.3	2.1	1.7	5.0	4.4	2.0	3.0	2.9	6.3	4.3
STD ERR OF P	1.7	3.8	3.1	3.3	3.1	1.9	2.2	3.9	1.7	4.7	4.8	2.4	2.2	5.3	5.0	2.5	3.1	2.8	6.8	4.7
AGE: 13																				
DELTA-P	7.5	0.4	-1.3	-0.7	1.7	-0.2	0.2	3.9#	-0.9#	6.3	-3.2*	-1.7	-0.7	7.2#	0.1	-0.6	2.8	-2.2	-1.5	-1.5
STD ERR OF DP		1.3	1.2	1.1	1.2	0.7	0.7	1.6	0.4	3.4	1.4	1.0	0.8	2.7	2.1	0.9	1.8	1.4	1.6	1.9
STD ERR OF P	0.7	1.5	1.3	1.4	1.4	0.9	1.1	1.8	0.7	3.6	1.4	1.1	1.1	2.8	2.3	1.2	2.1	1.3	1.7	2.0
AGE: 17																				
DELTA-P	9.2	2.5*	0.5	-0.9	-1.4	-2.0#	1.7#	0.2	-0.7	0.3	1.7	0.2	-1.3	0.5	1.4	0.1	1.7	0.7	-1.0	-2.6
STD ERR OF DP		1.3	1.3	1.2	1.0	0.6	0.5	1.6	0.4	2.2	1.7	1.1	0.8	1.7	2.8	0.9	1.5	2.5	1.6	1.7
STD ERR OF P	0.7	1.4	1.6	1.5	1.1	0.8	1.0	1.7	0.7	2.3	1.9	1.3	1.1	1.8	3.0	1.1	1.6	2.7	1.7	1.8

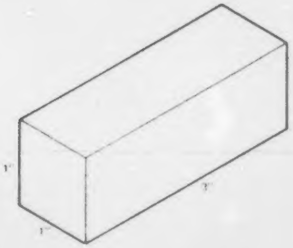
RK20
OBJ IV

Look at the pictures below. How many blocks does it take to fill the crate?

BLOCK



CRATE



ANSWER ______________________

SCORING GUIDE
RK20
K53016-12

00 = No Response

10 = 3; 3 blocks; 3 cubes

20 = 2; 2 blocks

21 = Other Unacceptable

22 = 5

39 = I Don't Know.

Report #: RK20

NAEP #: K53016-12

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		9	13
Age:			
Package-Exercise:		06-16	06-07
National P-value:			
	RK20	48.32	82.98

Timing: (in seconds)

		9	13
	Stimulus:	5	5
	Response:	41	36
RK20	Exercise total:	46	41

EXERCISE: RK20

Look at the pictures below. How many blocks (1" x 1" x 1") does it take to fill a crate (1" x 1" x 3")?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.8	1.1*	0.4	-0.9*	-0.4	0.4	-0.4	2.0*	-0.6#	0.7	2.6	0.1	-0.8*	3.5*	-0.2	-0.1	0.6	-0.5	-0.7	-1.4#
STD ERR OF DP		0.5	0.4	0.4	0.4	0.3	0.3	0.9	0.2	1.3	1.7	0.5	0.4	1.4	1.1	0.4	0.6	0.6	0.7	0.4
STD ERR OF P	0.3	0.7	0.5	0.4	0.5	0.4	0.3	1.0	0.2	1.3	1.7	0.6	0.4	1.5	1.2	0.4	0.6	0.7	0.8	0.4
AGE: 13																				
DELTA-P	0.5	0.1	0.2	-0.4*	0.2	0.2	-0.2	0.9	-0.2*	-0.5#	1.5	-0.1	-0.3*	1.1	0.1	-0.4*	0.0	0.3	0.5	-0.5#
STD ERR OF DP		0.2	0.3	0.2	0.3	0.1	0.1	0.5	0.1	0.1	1.0	0.2	0.1	1.2	0.4	0.2	0.3	0.5	0.5	0.1
STD ERR OF P	0.1	0.3	0.4	0.1	0.3	0.2	0.1	0.6	0.1	0.0	1.0	0.2	0.1	1.3	0.4	0.1	0.3	0.5	0.6	0.0
RESPONSE: 10* AGE: 9	TEXT: 3; 3 blocks; 3 cubes																			
DELTA-P	48.3	-4.3	-3.0	1.9	4.1	5.1#	-5.2#	-10.2#	3.2#	-14.9#	-4.8	-0.5	7.7#	-17.3#	-7.4	-0.3	-0.4	4.5	7.8#	6.8
STD ERR OF DP		2.3	2.7	2.7	2.1	1.1	1.1	3.0	0.7	4.8	4.8	2.1	2.0	4.0	4.0	2.4	3.6	2.5	3.0	5.0
P-VALUE	48.3	44.1	45.4	50.3	52.5	53.4	43.1	38.1	51.5	33.4	43.5	47.8	56.0	31.0	41.0	48.0	48.0	52.8	56.1	55.1
STD ERR OF P	1.5	2.5	2.9	3.5	2.3	1.9	1.7	3.1	1.7	4.6	4.8	2.9	2.3	4.2	4.1	2.9	3.9	2.4	3.0	5.5
AGE: 13																				
DELTA-P	82.9	-4.5*	-3.6*	4.1#	3.0*	2.8#	-2.6#	-24.3#	4.5#	-5.3	-11.1#	-0.1	6.1#	-9.6*	0.1	-1.5	-0.8	-1.0	1.7	8.9#
STD ERR OF DP		2.2	1.6	1.5	1.5	0.8	0.8	3.0	0.6	4.4	3.0	1.6	1.0	4.0	3.4	1.6	2.4	2.6	2.3	1.9
P-VALUE	82.9	78.4	79.4	87.0	86.0	85.7	80.4	58.6	87.4	77.7	71.8	82.9	89.1	73.3	83.0	81.4	82.1	81.9	84.7	91.9
STD ERR OF P	1.0	2.6	1.9	1.8	1.6	1.3	1.2	3.3	0.9	4.6	3.2	1.8	1.2	4.1	3.6	2.0	2.6	2.7	2.3	1.9
RESPONSE: 20 AGE: 9	TEXT: 2; 2 blocks																			
DELTA-P	25.2	-2.9	3.4	0.8	-0.8	-1.2	1.2	-4.0	1.1*	3.4	0.1	2.4	-1.4	-1.9	2.3	-1.8	3.8	-2.6	0.6	1.5
STD ERR OF DP		1.9	2.2	1.9	1.7	1.0	1.0	2.1	0.5	7.5	4.4	1.5	1.5	2.9	3.7	1.5	2.7	2.1	3.2	5.2
STD ERR OF P	1.1	2.1	2.6	2.4	1.8	1.5	1.5	2.1	1.3	7.9	4.5	1.9	2.0	3.0	4.0	1.6	2.9	1.9	3.1	5.8
AGE: 13																				
DELTA-P	7.8	2.1*	1.0	-1.2	-1.5	-2.0#	1.9#	7.6#	-1.2#	4.5	1.7	1.8	-3.4#	1.4	-0.4	2.2*	0.3	-2.1	-1.1	-4.0#
STD ERR OF DP		1.0	1.2	1.0	0.9	0.7	0.6	2.4	0.4	3.4	2.0	1.1	0.7	1.8	2.1	1.0	1.2	1.9	1.5	1.1
STD ERR OF P	0.6	1.0	1.4	1.2	1.0	0.6	1.1	2.7	0.6	3.3	2.0	1.3	0.9	1.9	2.1	1.3	1.3	2.0	1.5	1.1
RESPONSE: 21 AGE: 9	TEXT: Other Unacceptable																			
DELTA-P	18.0	4.0*	-1.0	-1.5	-1.3	-1.6*	1.7*	11.4#	-3.3#	12.1#	6.7	-0.4	-3.2*	13.8#	4.7	1.9	-3.9*	-0.3	-6.0#	-7.2#
STD ERR OF DP		1.8	2.2	1.7	2.0	0.7	0.7	2.0	0.6	4.3	4.1	1.7	1.4	3.4	3.3	1.8	1.7	2.0	1.9	2.9
STD ERR OF P	1.1	2.0	2.5	1.9	2.5	1.4	1.3	2.1	1.1	4.7	4.2	2.1	1.3	3.7	3.5	2.4	1.6	1.9	1.7	3.0
AGE: 13																				
DELTA-P	7.7	2.5	1.9	-2.3*	-1.5	-0.4	0.4	13.9#	-2.7#	1.2	8.0#	-1.7	-2.1#	5.3	0.8	0.2	0.3	2.3	-2.1	-3.8*
STD ERR OF DP		1.8	1.4	1.2	1.1	0.7	0.7	2.3	0.5	2.5	2.9	1.0	0.7	3.2	2.5	1.2	2.1	2.2	1.8	1.7
STD ERR OF P	0.8	2.1	1.7	1.3	1.2	1.1	1.1	2.6	0.7	2.8	3.2	1.1	0.9	3.3	2.7	1.5	2.3	2.3	1.7	1.7
RESPONSE: 22 AGE: 9	TEXT: 5																			
DELTA-P	3.2	2.2#	-0.2	-0.7	-1.1	-1.2#	1.3#	1.9*	-0.3	1.1	-2.4#	-0.7	-0.8	0.5	-0.3	0.6	-0.4	-0.9	-0.3	0.1
STD ERR OF DP		0.6	0.7	0.5	0.6	0.4	0.4	0.8	0.2	1.5	0.7	0.6	0.4	1.1	0.9	0.6	0.6	0.7	1.2	1.2
STD ERR OF P	0.4	0.6	0.8	0.6	0.8	0.5	0.6	0.8	0.5	1.6	0.6	0.6	0.5	1.1	0.8	0.8	0.7	0.6	1.3	1.3
AGE: 13																				
	Response did not occur at this age.																			
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	3.5	-0.1	0.2	0.5	-0.6	-1.5#	1.5#	-1.1	-0.1	-2.3#	-2.2*	-0.9	-1.5*	1.4	0.7	-0.2	0.3	-0.3	-1.4	0.2
STD ERR OF DP		0.7	1.3	0.7	1.0	0.4	0.4	0.9	0.3	0.8	1.0	0.7	0.7	2.6	2.5	0.7	0.9	1.1	0.8	1.2
STD ERR OF P	0.5	0.6	1.5	0.6	1.3	0.4	0.8	0.9	0.5	0.7	1.0	0.7	0.6	2.8	2.8	0.8	0.9	1.1	0.9	1.2

EXERCISE: RK20

Look at the pictures below. How many blocks (1" x 1" x 1") does it take to fill a crate (1" x 1" x 3")?

RESPONSE: 39 AGE: 13 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.0	-0.1	0.5	-0.2	-0.2	-0.6*	0.6*	1.9	-0.4*	0.1	-0.0	0.0	-0.4	1.7	-0.6	-0.4	0.1	0.4	0.9	-0.7*
STD ERR OF DP		0.4	0.5	0.4	0.3	0.2	0.2	1.0	0.2	0.9	0.7	0.3	0.2	1.2	0.3	0.3	0.5	0.7	0.9	0.3
STD ERR OF P	0.2	0.4	0.6	0.4	0.3	0.2	0.4	1.1	0.2	1.0	0.8	0.3	0.3	1.3	0.2	0.3	0.5	0.7	1.0	0.3

RN01
OBJ IV

Which one of the statements below follows logically from the statement.

"All good drivers are alert"?

○ All alert persons are good drivers.

○ Some alert persons are not good drivers.

○ A person who is not a good driver is not alert.

● A person who is not alert is not a good driver.

○ I don't know.

Report #: RN01

NAEP #: N00005-34

Content Area: N. LOGIC

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		06-25	03-17
National P-value:			
	RN01	50.45	55.74

Timing: (in seconds)		17	Adult
	Stimulus:	20	23
	Response:	17	*
	I don't know:	5	*
	Pause:	6	*
RN01	Exercise total:	48	*

*Time not limited by paced tape.

EXERCISE: RW01

Which one of the statements below follows logically from the statement, "All good drivers are alert"?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.4	-0.1	0.1	0.0	-0.1	0.1	-0.1	0.4	-0.1	-0.4#	0.0	0.0	0.0	0.7	-0.4#	0.2	-0.4#	-0.4#	-0.1	0.2
STD ERR OF DP		0.3	0.3	0.2	0.2	0.1	0.1	0.5	0.1	0.2	0.4	0.2	0.2	0.6	0.2	0.2	0.2	0.2	0.3	0.4
STD ERR OF P	0.2	0.4	0.4	0.3	0.2	0.2	0.2	0.5	0.2	0.0	0.5	0.3	0.2	0.7	0.0	0.3	0.0	0.0	0.3	0.4
AGE: Ad																				
DELTA-P	0.3	-0.3	-0.3	-0.3	0.9	0.3	-0.3	2.5	-0.3	-0.3	-0.3	0.6	-0.3	2.7	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3
STD ERR OF DP		0.3	0.3	0.3	0.9	0.3	0.3	2.4	0.3	0.3	0.3	0.6	0.3	2.6	0.3	0.3	0.3	0.3	0.3	0.3
STD ERR OF P	0.3	0.0	0.0	0.0	1.2	0.6	0.0	2.7	0.0	0.0	0.0	0.9	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0
RESPONSE: 01 AGE: 17 TEXT: All alert persons are good drivers.																				
DELTA-P	24.0	3.1	2.4	-1.9	-2.6	-0.2	0.2	11.8#	-3.1#	9.0#	7.6#	2.1	-6.6#	8.9#	1.5	0.5	2.6	-0.9	-1.9	-7.4
STD ERR OF DP		2.2	1.7	1.8	2.2	1.0	0.9	3.9	0.6	3.4	2.9	1.3	1.1	3.3	3.1	1.6	2.9	4.7	2.9	3.8
STD ERR OF P	1.2	2.4	1.8	2.2	2.7	1.4	1.6	4.1	1.3	3.6	3.1	1.8	1.5	3.2	3.2	1.8	3.2	4.8	3.2	4.2
AGE: Ad																				
DELTA-P	26.4	-1.0	1.9	3.1	-4.9#	-0.7	0.6	3.6	-1.5#	6.7#	1.9	-0.4	-8.6#	-2.2	0.4	-0.5	5.8	-0.0	7.3	-8.2#
STD ERR OF DP		2.2	2.5	2.0	1.8	1.3	1.2	4.1	0.5	1.9	2.6	2.3	2.0	3.4	2.8	1.4	4.0	3.6	3.9	2.4
STD ERR OF P	1.3	2.3	3.2	2.3	1.9	1.9	1.6	4.5	1.3	2.5	2.9	2.8	1.9	3.7	2.9	1.8	4.5	3.8	4.4	2.2
RESPONSE: 02 AGE: 17 TEXT: Some alert persons are not good drivers.																				
DELTA-P	9.5	4.6*	-1.9	0.4	-2.4*	1.1	-1.0	10.3#	-1.3#	1.9	3.5	-0.4	-1.5	3.3	3.9	0.2	-3.3*	-1.5	-0.2	-1.0
STD ERR OF DP		1.8	1.1	1.4	1.2	0.7	0.7	3.3	0.5	2.1	2.2	1.0	0.8	3.3	2.7	1.3	1.6	2.2	2.4	2.2
STD ERR OF P	0.8	2.2	1.0	1.8	1.2	1.0	1.1	3.8	0.8	2.1	2.3	1.4	1.1	3.3	3.0	1.6	1.3	2.1	2.7	2.2
AGE: Ad																				
DELTA-P	7.2	1.2	-1.5	0.8	-0.3	-1.5	1.3	0.9#	-1.4#	4.3#	0.9	-2.1*	-3.4#	4.1	2.2	-0.3	-0.1	-2.1	-0.1	-2.0
STD ERR OF DP		1.1	1.0	0.9	1.1	1.0	0.9	2.4	0.4	1.2	1.4	0.8	0.9	2.1	2.5	0.8	1.7	1.9	2.0	1.2
STD ERR OF P	0.6	1.3	1.2	1.1	1.4	1.0	1.2	2.6	0.6	1.4	1.5	1.0	0.9	2.2	2.7	0.9	1.7	2.0	2.2	1.3
RESPONSE: 03 AGE: 17 TEXT: A person who is not a good driver is not alert.																				
DELTA-P	14.0	-3.4*	-3.2*	3.0	2.4	-0.9	0.9	-5.2#	1.2#	-1.8	-4.4*	0.9	1.0	-1.2	-6.6*	-0.2	-4.9#	8.0	4.5*	0.4
STD ERR OF DP		1.4	1.4	1.7	1.6	0.8	0.8	1.9	0.3	2.5	1.8	1.4	0.9	1.6	2.8	1.2	1.5	4.6	2.2	2.8
STD ERR OF P	1.0	1.4	1.6	2.2	1.8	1.3	1.2	1.9	1.1	2.5	1.9	1.9	1.2	1.5	2.9	1.4	1.4	4.9	2.4	3.0
AGE: Ad																				
DELTA-P	9.1	1.1	-1.8	0.8	0.2	1.3	-1.2	-0.6	0.2	-2.3	-0.6	1.9	1.3	-0.5	-3.6#	-0.8	2.2	-2.8	1.9	2.9
STD ERR OF DP		1.3	1.3	1.2	1.3	0.8	0.8	1.7	0.3	1.3	2.1	1.3	1.4	1.9	1.2	0.8	2.4	2.4	2.1	2.8
STD ERR OF P	0.7	1.4	1.7	1.4	1.5	1.1	1.0	1.9	0.8	1.3	[illegible]	1.7	1.7	2.0	1.2	1.0	2.5	2.4	2.3	3.1
RESPONSE: 04* AGE: 17 TEXT: A person who is not alert is not a good driver.																				
DELTA-P	50.5	-4.4*	2.1	-1.5	3.2	0.0	-0.0	-19.4#	3.4#	-9.7*	-9.0#	-2.1	7.8#	-12.5#	2.5	-1.2	5.5	-4.6	-2.1	9.0*
STD ERR OF DP		2.0	2.3	1.9	1.9	1.2	1.1	5.2	0.6	4.0	3.1	1.3	1.3	3.7	4.1	1.6	3.0	5.3	2.7	3.7
P-VALUE	50.5	46.1	52.6	49.0	53.6	50.5	50.4	31.1	53.9	40.7	41.5	48.4	58.2	38.0	52.9	49.3	56.0	45.8	48.3	59.5
STD ERR OF P	1.2	2.0	2.7	2.4	2.2	1.7	1.7	3.4	1.3	4.0	3.1	1.8	1.8	3.8	4.2	1.7	3.4	5.6	3.0	4.0
AGE: Ad																				
DELTA-P	55.7	-1.2	1.8	-4.8*	4.7*	1.0	-0.9	-16.3#	3.3#	-8.9#	-2.0	0.4	11.9#	-5.4	0.2	1.9	-7.8*	4.1	-8.0	8.8#
STD ERR OF DP		2.3	2.5	2.2	2.4	1.3	1.2	3.9	0.5	2.3	3.3	2.4	2.0	4.1	3.2	1.6	3.9	4.4	4.0	3.1
P-VALUE	55.7	54.6	57.5	50.9	60.5	56.7	54.8	39.4	59.1	46.9	53.7	56.1	67.6	50.4	55.9	57.7	47.9	59.9	47.7	64.5
STD ERR OF P	1.4	2.5	3.0	2.6	2.7	1.7	2.0	4.2	1.4	2.7	3.8	2.6	2.2	4.2	3.2	2.2	4.2	4.6	4.4	3.1
RESPONSE: 09 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	1.7	0.2	0.4	0.0	-0.5	-0.1	0.1	2.1	-0.3	1.0	2.2	-0.5	-0.7	0.9	-0.8	0.5	0.6	-0.5	-0.2	-1.1*
STD ERR OF DP		0.6	0.5	0.6	0.5	0.3	0.3	1.1	0.2	0.9	1.6	0.4	0.3	0.9	0.5	0.5	1.0	0.8	0.8	0.6
STD ERR OF P	0.3	0.6	0.6	0.8	0.5	0.5	0.4	1.2	0.3	0.9	1.8	0.4	0.3	0.9	0.4	0.6	1.1	0.8	1.0	0.5

EXERCISE: RN01

Which one of the statements below follows logically from the statement, "All good drivers are alert"?

RESPONSE: 09 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.2	0.2	-0.1	0.5	-0.6	-0.4	0.4	2.0	-0.3	0.5	0.2	-0.4	-0.9#	1.2	1.2	-0.1	0.2	1.0	-0.8	-1.2#
STD ERR OF DP		0.5	0.5	0.5	0.4	0.3	0.3	1.5	0.2	0.4	0.6	0.3	0.3	1.0	1.1	0.4	0.8	1.6	0.5	0.3
STD ERR OF P	0.3	0.5	0.6	0.6	0.3	0.3	0.5	1.7	0.3	0.5	0.6	0.4	0.2	1.0	1.1	0.5	0.8	1.8	0.4	0.0

RW02
OBJ V

John is four years older than Ellen, and Ellen is 11 years younger than Monica. Monica is 12 years old. How old is John?

ANSWER ____________________

Report #: RW02

NAEP #: N00010-2

Content Area: N. LOGIC

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13
Package-Exercise:		07-19
National P-value:		
	RW02	71.27

Timing: (in seconds)

	Stimulus:	10
	Response:	61
RW02	Exercise total:	71

SCORING GUIDE
RW02
N00010-2

00 = No Response

10 = 5; 5 years old

20 = 27; 27 years old

21 = 19; 19 years old

22 = 15; 15 years old

23 = Other Unacceptable

39 = I Don't Know.

EXERCISE: RN02

John is four years older than Ellen, and Ellen is 11 years younger than Monica. Monica is 12 years old. How old is John?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO H	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.6	-0.1	-0.2	0.8	-0.6	0.2	-0.2	-0.3	0.1	1.1	0.8	-0.1	-0.5	0.2	3.0	-0.2	-0.6	-0.2	-0.6	-0.6
STD ERR OF DP		0.4	0.5	1.0	0.4	0.2	0.2	0.5	0.1	0.9	0.7	0.1	0.2	0.8	3.0	0.4	0.4	0.5	0.8	0.4
STD ERR OF P	0.4	0.3	0.3	1.4	0.0	0.6	0.3	0.2	0.5	1.2	1.0	0.4	0.2	0.8	3.4	0.2	0.0	0.4	0.0	0.0
RESPONSE: 10* AGE: 13 TEXT: 5; 5 years old																				
DELTA-P	71.3	-4.6	0.3	4.4	-0.9	-1.7	1.7	-33.6#	7.0#	-17.0#	-9.6#	-0.2	11.5#	-26.1#	-1.8	-1.7	7.4#	-9.8*	4.4	15.5#
STD ERR OF DP		3.3	2.5	2.5	3.0	1.1	1.0	3.1	1.1	3.8	3.7	1.6	1.0	5.7	4.5	2.4	2.6	4.4	3.1	3.3
P-VALUE	71.3	66.6	71.6	75.7	70.4	69.6	72.9	37.7	78.3	54.3	61.7	71.1	82.7	45.2	69.5	69.6	78.7	61.5	75.7	86.7
STD ERR OF P	1.6	3.9	2.6	2.8	3.6	2.2	1.6	3.6	1.5	4.4	4.3	2.5	1.6	6.1	4.8	3.1	3.0	4.4	2.9	3.2
RESPONSE: 20 AGE: 13 TEXT: 27; 27 years old																				
DELTA-P	2.7	0.6	0.5	-0.7	-0.3	0.2	-0.2	3.0#	-0.4*	1.1	0.2	0.5	-0.3	-1.2	1.1	-0.7	0.2	4.3#	-1.5*	-0.8
STD ERR OF DP		0.8	0.6	0.6	0.5	0.3	0.3	1.0	0.2	1.8	0.8	0.5	0.4	0.7	1.4	0.4	0.9	1.2	0.6	0.8
STD ERR OF P	0.3	0.9	0.7	0.6	0.5	0.5	0.5	1.1	0.3	1.9	0.9	0.6	0.5	0.7	1.6	0.3	1.0	1.3	0.6	0.9
RESPONSE: 21 AGE: 13 TEXT: 19; 19 years old																				
DELTA-P	0.4	-0.0	-0.2	-0.1	0.3	-0.0	0.0	-0.3	0.0	0.1	-0.1	-0.4#	0.1	0.7	-0.4#	0.4	-0.1	-0.4#	-0.2	-0.4#
STD ERR OF DP		0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.4	0.3	0.2	0.2	0.8	0.2	0.3	0.3	0.2	0.2	0.2
STD ERR OF P	0.2	0.3	0.1	0.3	0.4	0.2	0.2	0.1	0.2	0.4	0.3	0.0	0.3	0.8	0.0	0.4	0.3	0.0	0.2	0.0
RESPONSE: 22 AGE: 13 TEXT: 15; 15 years old																				
DELTA-P	12.4	2.9	-0.9	-2.4	0.9	1.7#	-1.6*	21.8#	-4.4#	9.5#	7.6*	-0.2	-6.1#	15.7#	-1.0	-0.5	-2.0	6.4*	-2.4	-7.5#
STD ERR OF DP		1.6	1.3	1.6	1.7	0.7	0.7	2.3	0.7	3.7	3.2	1.1	0.8	3.3	2.2	1.4	2.1	2.9	1.9	1.6
STD ERR OF P	0.9	1.8	1.3	1.9	2.1	1.3	1.0	2.6	0.7	3.9	3.5	1.4	0.9	3.4	2.2	1.8	2.3	3.1	1.7	1.5
RESPONSE: 23 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	11.6	0.5	1.3	-1.7	0.2	-0.2	0.2	9.3#	-2.3#	4.4	1.6	0.1	-4.1#	10.4*	-0.9	2.4	-5.0#	-0.0	0.5	-5.8#
STD ERR OF DP		1.3	1.4	1.0	1.6	0.7	0.7	2.3	0.5	2.8	2.2	0.9	0.8	4.2	1.8	1.3	1.2	2.0	1.9	1.5
STD ERR OF P	0.8	1.5	1.6	1.0	1.9	1.1	1.0	2.5	0.8	3.0	2.4	1.1	1.1	4.5	1.8	1.6	1.1	1.8	2.0	1.5
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	1.0	0.8	-0.8#	-0.3	0.4	-0.1	0.1	0.2	0.0	0.8	-0.4	0.4	-0.6*	0.3	0.0	0.2	-0.0	-0.2	-0.2	-0.4
STD ERR OF DP		0.6	0.3	0.3	0.5	0.2	0.2	0.5	0.1	0.9	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.6	0.5	0.6
STD ERR OF P	0.2	0.8	0.2	0.3	0.6	0.3	0.3	0.5	0.3	1.0	0.4	0.6	0.2	0.7	0.7	0.6	0.5	0.6	0.5	0.7

RM03
OBJ III

Let a * b = a(a + b), then

2 * 3 =

ANSWER ________________

Report #: RM03

NAEP #: N00012-234

Content Area: M. LOGIC

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		08-06	08-16	01-16
National P-value:				
	RM03	35.93	64.84	42.83
Timing: (in seconds)				
	Stimulus:	9	6	7
	Response:	31	31	*
RM03	Exercise total:	40	37	*

*Time not limited by paced tape.

SCORING GUIDE
RM03
N00012-234

00 = No Response

10 = 10

11 = 2(2 + 3); 2 x 5; 2(5)

20 = 15; 3(3 + 2); 3 x 5

21 = 7; (2 x 2 + 3); (2 + 2 + 3); indication of attempt to solve problem

22 = 6; (2 x 3); attempt to multiply

23 = Other Unacceptable

24 = 5; 2 + 3

39 = I Don't Know.

EXERCISE: RN03

Let a * b = a(a + b), then 2 * 3 =

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.5	-0.9*	0.7	0.3	-0.2	0.2	-0.2	-0.4	-0.1	1.0	-0.4	0.4	-1.0*	3.4	-0.1	-0.3	-1.3*	0.8	-0.6	0.7
STD ERR OF DP		0.4	0.8	0.5	0.5	0.3	0.3	0.6	0.1	1.4	0.5	0.5	0.4	2.1	0.8	0.4	0.4	0.9	0.6	1.0
STD ERR OF P	0.3	0.3	1.0	0.6	0.6	0.5	0.4	0.5	0.3	1.5	0.9	0.6	0.3	2.3	0.9	0.4	0.3	1.0	0.6	1.1
AGE: 17																				
DELTA-P	2.7	-0.9	1.7	-0.6	-0.2	0.1	-0.1	-0.0	-0.4	0.2	2.8*	-0.5	-1.1*	0.1	-1.0	-1.2	-1.2	1.1	6.6	-0.9
STD ERR OF DP		1.0	2.2	0.9	1.0	0.5	0.4	1.1	0.2	1.3	1.3	0.4	0.4	1.1	1.3	0.8	1.0	1.6	5.4	1.3
STD ERR OF P	0.8	0.9	2.8	0.8	0.9	0.9	0.9	0.9	0.7	1.5	1.6	1.0	0.7	0.9	1.1	0.5	0.7	1.6	6.0	1.3
AGE: Ad																				
DELTA-P	1.4	-1.1*	1.4	-0.2	-0.2	0.4	-0.4	-1.0	0.2	0.7	-0.6	0.3	-0.6	-0.4	3.5	-0.3	0.7	0.1	-1.4*	-0.6
STD ERR OF DP		0.5	1.3	0.6	0.6	0.3	0.3	0.6	0.1	0.5	0.7	0.6	0.5	0.8	3.5	0.5	1.3	1.6	0.5	0.9
STD ERR OF P	0.5	0.2	1.7	0.5	0.5	0.7	0.4	0.4	0.6	0.8	0.7	0.9	0.5	0.7	3.8	0.5	1.4	1.6	0.0	0.9
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	35.9	-1.9	-9.4*	2.8	8.9*	-4.5*	4.6*	-16.9*	3.8*	-13.5*	-4.5	-6.6*	13.2*	-22.1*	-0.5	1.0	2.9	-0.5	-5.1	15.9*
STD ERR OF DP		2.4	2.7	2.2	3.3	1.1	1.1	2.8	0.7	3.6	4.6	1.9	1.5	2.5	2.4	2.6	3.3	4.2	3.4	4.0
P-VALUE	35.9	34.0	26.5	38.7	44.9	31.4	40.5	19.0	39.7	22.4	31.4	29.4	49.1	13.9	35.4	36.9	38.9	35.5	30.9	51.9
STD ERR OF P	1.6	2.6	3.0	2.2	4.1	1.7	2.0	2.8	1.8	3.7	4.8	2.3	2.1	2.5	2.2	3.0	3.2	4.3	3.9	4.5
AGE: 17																				
DELTA-P	64.8	-6.2*	-0.5	2.4	3.3	0.0	0.0	-23.4*	4.8*	-19.7*	-15.3*	-4.2*	13.9*	-15.9*	-2.7	1.3	2.9	0.0	-4.7	11.1*
STD ERR OF DP		2.9	2.4	2.0	2.7	1.3	1.2	3.2	0.7	4.3	3.5	1.8	1.3	5.6	5.7	1.9	3.3	4.3	4.7	2.8
P-VALUE	64.8	58.6	64.4	67.2	68.1	64.8	64.8	41.4	69.7	45.2	49.6	60.7	78.8	49.0	62.2	66.2	67.7	64.9	60.2	75.9
STD ERR OF P	1.4	3.3	2.7	2.2	3.3	1.8	2.0	3.1	1.6	4.6	3.5	2.1	1.9	5.4	6.0	2.5	3.6	4.2	5.1	3.0
AGE: Ad																				
DELTA-P	42.8	-6.6*	3.3	-0.8	3.4	5.2*	-4.8*	-23.5*	4.0*	-14.9*	-12.5*	3.9*	23.0*	-20.1*	-15.6*	0.5	1.3	3.1	0.3	20.8*
STD ERR OF DP		2.6	3.3	2.2	2.3	1.3	1.2	3.4	0.7	2.0	2.6	1.5	2.4	3.1	4.7	1.8	4.5	4.5	4.4	3.0
P-VALUE	42.8	36.3	46.1	42.0	46.2	48.0	38.0	19.3	46.8	28.0	30.3	46.7	65.8	22.7	27.2	43.3	44.1	45.9	43.1	63.7
STD ERR OF P	1.5	2.7	4.2	2.4	2.4	2.0	1.9	3.5	1.6	2.6	2.6	2.2	2.5	3.0	4.8	2.2	5.0	4.8	4.7	3.0
RESPONSE: 10 AGE: 13 TEXT: 10																				
DELTA-P	10.8	-2.2	-3.0	1.8	3.5	-2.0*	2.0*	-9.0*	2.2*	-6.2*	-7.7*	-3.2*	7.0*	-9.1*	-0.9	0.0	3.0	-1.6	-1.0	5.3
STD ERR OF DP		1.7	1.7	2.0	2.5	0.8	0.8	1.2	0.3	2.0	1.6	1.3	1.0	1.3	2.1	1.8	2.7	2.5	1.9	2.7
STD ERR OF P	1.1	1.7	1.8	2.3	3.1	1.1	1.6	0.7	1.3	1.7	1.6	1.4	1.9	1.0	2.0	2.2	3.0	2.7	2.1	3.0
AGE: 17																				
DELTA-P	39.4	-11.6*	4.5	1.4	4.2	-2.9*	2.7*	-27.5*	5.4*	-19.0*	-19.2*	-6.2*	16.7*	-16.7*	-10.1*	0.5	3.1	1.7	-3.4	17.1*
STD ERR OF DP		2.8	2.8	2.3	3.2	1.2	1.1	1.8	0.7	3.6	3.1	1.8	1.3	5.2	4.7	2.3	3.5	4.8	3.7	4.7
STD ERR OF P	1.6	3.0	3.3	2.6	3.9	2.1	1.8	1.7	1.8	3.6	2.9	2.1	2.3	4.9	4.8	2.9	3.6	4.7	3.9	5.4
AGE: Ad																				
DELTA-P	26.3	-5.2*	2.5	-1.7	4.0	6.7*	-6.3*	-19.4*	3.3*	-13.9*	-9.2*	1.2	22.1*	-16.1*	-10.7*	0.1	2.7	1.4	-3.1	18.6*
STD ERR OF DP		2.2	3.5	2.5	2.3	1.4	1.3	2.5	0.5	1.7	2.5	1.5	1.9	3.1	3.2	1.7	4.9	5.2	4.3	3.5
STD ERR OF P	1.6	1.9	4.5	2.9	2.4	2.5	1.5	2.3	1.7	2.0	2.2	2.3	2.7	2.6	3.2	2.2	5.5	5.5	4.5	3.8
RESPONSE: 11 AGE: 13 TEXT: 2(2 + 3); 2 x 5; 2(5)																				
DELTA-P	25.2	0.2	-6.4*	1.1	5.4*	-2.5*	2.6*	-7.9*	1.6*	-7.3	3.1	-3.4*	6.2*	-13.0*	0.4	1.0	-0.1	1.2	-4.1	10.6*
STD ERR OF DP		2.6	2.1	1.8	2.2	1.0	1.0	2.8	0.6	3.9	4.1	1.6	1.3	2.4	2.2	1.8	1.8	4.1	2.3	4.6
STD ERR OF P	1.3	3.2	2.3	1.8	2.5	1.4	1.8	2.7	1.5	4.3	4.5	2.0	1.7	2.3	2.5	2.3	1.8	4.1	2.5	4.9
AGE: 17																				
DELTA-P	25.5	5.4*	-5.0*	1.0	-1.0	2.9*	-2.7*	4.1	-0.6	-0.7	3.9	2.0	-2.8*	0.8	7.4*	0.8	-0.3	-1.6	-1.3	-6.1
STD ERR OF DP		1.6	1.5	1.5	2.0	1.2	1.1	2.6	0.5	3.5	2.9	1.7	1.3	3.6	2.7	1.4	2.0	3.1	3.9	3.4
STD ERR OF P	1.0	1.7	1.6	1.6	2.5	1.7	1.3	2.8	1.1	3.6	3.0	2.0	1.6	3.9	2.7	1.5	2.0	3.1	4.0	3.9

EXERCISE: RM03

Let a * b = a(a + b), then 2 * 3 =

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 1 AGE: Ad TEXT: 2(2 + 3); 2 x 5; 2(5)																				
DELTA-P	16.5	-1.4	0.8	0.9	-0.7	-1.5	1.4	-4.2	0.7	-1.0	-3.3	2.7	0.9	-4.1	-4.9*	0.4	-1.4	1.7	3.4	2.2
STD ERR OF DP		1.8	1.7	1.6	1.3	1.2	1.1	2.5	0.4	1.6	2.1	1.4	1.9	2.2	2.3	1.3	2.9	2.4	3.6	2.6
STD ERR OF P	0.9	2.0	2.0	2.1	1.3	1.7	1.3	2.5	1.1	1.9	2.0	1.8	2.1	2.1	2.4	1.7	3.1	2.4	3.9	2.6
RESPONSE: 20 AGE: 13 TEXT: 15; 3(3 + 2); 3 x 5																				
DELTA-P	0.3	-0.1	0.4	-0.3*	0.1	0.2	-0.2	-0.3*	0.0	-0.3*	-0.2	0.4	-0.2	-0.3*	0.4	-0.0	0.1	-0.3*	-0.1	0.2
STD ERR OF DP		0.2	0.3	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.5	0.2	[illegible]	0.1	0.2	0.5
STD ERR OF P	0.1	0.2	0.4	0.0	0.4	0.3	0.1	0.0	0.2	0.0	0.1	0.4	0.1	0.0	0.6	0.3	0.3	0.0	0.2	0.5
AGE: 17																				
DELTA-P	0.1	-0.1	0.0	0.1	-0.1	0.1	-0.1	-0.1	-0.0	0.4	-0.1	0.0	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.1	-0.1	-0.1	-0.1	0.2	0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.2	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0
RESPONSE: 21 AGE: 13 TEXT: 7; (2 x 2 + 3); (2 + 2 + 3); indication of attempt to solve problem																				
DELTA-P	4.8	0.6	1.0	-0.4	[illegible]	-2.0*	2.0*	-0.3	0.2	-2.2	-2.7*	0.9	1.0	-1.1	-2.9*	0.1	0.3	1.8*	0.1	0.9
STD ERR OF DP		1.0	0.9	0.9	0.8	0.6	0.5	1.1	0.2	1.2	1.0	0.8	0.5	1.4	1.2	0.9	1.2	0.9	1.2	1.3
STD ERR OF P	0.5	1.2	1.0	1.1	0.8	0.5	0.9	1.2	0.6	1.2	1.0	0.9	0.8	1.4	1.3	1.1	1.3	1.0	1.3	1.4
AGE: 17																				
DELTA-P	1.5	0.1	-0.4	0.7	-0.4	0.3	-0.3	-0.1	0.1	-0.8	1.2	0.6	-0.6	0.3	0.7	0.1	0.0	-0.9	0.1	-1.2*
STD ERR OF DP		0.6	0.6	0.4	0.4	0.3	0.2	0.7	0.1	0.5	0.9	0.4	0.3	1.0	0.7	0.5	1.0	0.6	0.9	0.3
STD ERR OF P	0.3	0.6	0.7	0.5	0.5	0.4	0.3	0.7	0.3	0.4	1.0	0.5	0.4	1.0	0.7	0.6	1.1	[illegible]	0.9	0.2
AGE: Ad																				
DELTA-P	3.0	-0.3	1.2	0.5	-1.7*	-0.8	0.8	-2.0*	0.1	-0.1	2.9	0.3	-2.1*	-0.6	6.9*	-0.3	-0.7	-1.7	0.9	-2.5*
STD ERR OF DP		0.9	0.9	1.0	0.6	0.5	0.5	0.7	0.3	0.8	1.6	0.7	0.6	1.1	3.4	0.6	1.1	1.0	1.5	0.7
STD ERR OF P	0.5	1.0	1.0	1.3	0.5	0.6	0.7	0.6	0.5	1.0	1.8	0.9	0.4	1.0	3.7	0.7	1.1	0.9	1.6	0.5
RESPONSE: 22 AGE: 13 TEXT: 6; (2 x 3); attempt to multiply																				
DELTA-P	16.9	1.9	3.0	-0.9	-4.3*	1.9*	-1.9*	3.4	-1.3*	6.7*	2.0	1.9	-4.9*	3.3	6.4	-1.9	-0.1	1.3	1.4	-5.7*
STD ERR OF DP		3.0	2.2	1.5	1.9	0.8	0.8	2.1	0.5	2.5	3.1	1.3	1.3	2.4	4.0	1.5	2.0	3.1	2.9	2.3
STD ERR OF P	1.3	3.8	2.5	1.2	1.9	1.6	1.5	1.8	1.5	2.6	3.8	2.0	1.2	1.9	4.8	2.2	1.9	3.1	3.3	2.2
AGE: 17																				
DELTA-P	4.5	3.4*	-1.3	-0.2	-1.6	0.3	-0.3	6.6*	-1.2*	7.6*	1.0	-0.1	-1.8*	2.8	1.4	-0.2	-2.0*	1.0	-1.0	-0.8
STD ERR OF DP		1.5	0.7	1.0	1.0	0.5	0.5	1.9	0.3	2.0	1.2	0.7	0.5	2.1	1.7	0.7	0.8	2.4	1.4	1.6
STD ERR OF P	0.6	1.8	0.6	1.1	1.1	0.8	0.7	2.3	0.5	2.1	1.4	1.0	0.6	2.3	1.8	0.8	0.8	2.6	1.4	1.8
AGE: Ad																				
DELTA-P	4.2	2.2	-2.1*	0.3	-0.1	-0.3	0.3	9.4*	-0.9*	2.3*	1.1	-1.0	-1.8*	8.4*	1.2	-0.7	-2.0	-3.8*	1.2	-1.4
STD ERR OF DP		1.3	0.8	1.2	1.1	0.5	0.5	2.7	0.4	1.1	1.1	0.8	0.6	3.1	2.2	0.8	1.8	0.6	1.4	1.3
STD ERR OF P	0.6	1.4	0.6	1.6	1.3	0.7	0.9	3.0	0.6	1.4	1.4	0.9	0.8	3.4	2.3	0.9	1.9	0.4	1.5	1.2
RESPONSE: 23 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	11.3	-0.7	0.1	-0.9	1.6	0.4	-0.4	5.3*	-0.6	-0.2	4.3	-1.1	0.3	6.4	2.0	1.6	-0.2	-5.3*	-1.4	-3.5
STD ERR OF DP		1.2	1.8	1.1	1.7	0.6	0.6	2.1	0.4	2.4	2.9	1.1	0.9	5.1	2.0	1.1	1.2	1.6	1.7	2.2
STD ERR OF P	0.8	1.1	2.2	1.0	2.1	0.9	1.1	2.3	0.9	2.4	3.1	1.5	1.2	5.4	2.1	1.4	1.2	1.4	2.0	2.2

EXERCISE: MB03

Let a * b = a(a + b), then 2 * 3 =

RESPONSE: 23 AGE: 17 TEXT: Other Unacceptable

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	7.2	0.8	-1.4	-0.4	1.0	1.4	-1.3	5.5#	-0.9#	-0.6	0.3	3.4#	-3.4#	8.1#	-1.9	-0.3	-2.1	4.5	-3.7#	-1.6
STD ERR OF DP		1.4	1.0	1.2	1.4	0.7	0.7	2.0	0.4	1.5	2.1	1.3	0.8	3.0	1.2	0.9	1.6	2.4	1.3	1.3
STD ERR OF P	0.7	1.7	0.9	1.4	1.6	1.1	0.9	2.3	0.7	1.6	2.3	1.6	0.7	3.3	1.1	1.1	1.7	2.6	1.2	1.3
AGE: Ad																				
DELTA-P	8.2	2.5	0.8	-0.8	-2.1	1.9*	-1.8*	0.2	-0.3	-0.2	1.4	0.3	-0.6	-1.7	5.6	-1.2	-1.0	2.0	1.7	-1.1
STD ERR OF DP		1.3	1.2	1.0	1.2	0.9	0.8	2.0	0.3	1.0	1.7	1.2	1.2	1.8	3.3	1.0	1.7	3.3	1.7	1.4
STD ERR OF P	0.7	1.4	1.4	1.1	1.4	1.3	0.8	2.2	0.7	1.1	1.8	1.6	1.3	1.8	3.6	1.2	1.7	3.5	1.7	1.5

RESPONSE: 24 AGE: 13 TEXT: 5; (2 + 3)

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	16.2	4.8#	0.5	-1.0	-4.6*	1.7	-1.8	10.2#	-1.7#	9.8#	3.2	3.2#	-6.2#	4.4	-0.0	1.8	-1.0	1.2	1.8	-10.3#
STD ERR OF DP		1.9	1.7	1.8	2.0	0.9	0.9	2.4	0.5	2.9	3.6	1.3	1.0	3.4	3.6	1.9	3.1	3.0	2.1	1.8
STD ERR OF P	1.1	2.3	1.9	2.0	2.3	1.5	1.3	2.4	1.2	2.9	3.8	1.7	1.2	3.3	3.5	2.1	3.6	3.1	2.2	1.8
AGE: 17																				
DELTA-P	4.4	1.8	-1.8*	-0.6	0.9	-0.2	0.2	8.6#	-1.5#	3.8	1.9	-0.1	-2.3#	4.9	0.7	-0.8	1.4	-0.1	-2.4#	-1.6
STD ERR OF DP		1.5	0.8	0.9	1.2	0.5	0.5	2.9	0.5	2.3	1.3	0.8	0.7	2.6	1.2	0.6	1.8	3.2	0.9	0.9
STD ERR OF P	0.6	1.8	0.7	0.9	1.5	0.8	0.8	3.3	0.5	2.5	1.4	1.1	0.6	2.7	1.2	0.8	2.1	3.4	0.7	0.7
AGE: Ad																				
DELTA-P	7.7	1.7	-1.4	0.1	-0.2	-0.8	0.7	10.2#	-1.6#	2.5*	1.5	-2.3#	-3.7#	2.1	1.8	-0.8	4.2*	-0.6	0.3	-4.2#
STD ERR OF DP		1.2	1.1	1.1	1.0	0.6	0.6	2.4	0.4	1.2	1.4	0.8	1.0	2.4	2.3	0.7	1.9	2.1	1.8	1.2
STD ERR OF P	0.6	1.4	1.4	1.3	1.0	0.9	0.9	2.6	0.7	1.3	1.5	1.0	1.0	2.4	2.5	0.8	2.2	2.2	1.9	1.1

RESPONSE: 39 AGE: 13 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	13.0	-3.7#	3.7#	0.4	-0.4	2.1#	-2.1#	-0.9	-0.2	-1.2	-1.8	0.9	-2.2*	5.9	-5.2*	-2.2	-0.8	1.0	4.0	1.8
STD ERR OF DP		1.3	1.4	1.6	2.0	0.8	0.8	2.5	0.4	2.1	2.1	1.3	0.9	3.0	2.3	1.4	2.0	2.3	2.7	3.4
STD ERR OF P	0.9	1.3	1.6	1.8	2.4	1.3	1.1	2.8	1.0	2.0	2.2	1.7	1.0	3.2	2.5	1.6	1.9	2.4	2.9	3.7
AGE: 17																				
DELTA-P	14.7	1.2	3.6	-1.4	-2.9	-1.9*	1.7*	2.9	-1.0*	9.2*	8.1#	0.8	-4.7#	-0.3	2.9	1.0	0.3	-5.5*	5.1*	-5.3*
STD ERR OF DP		1.9	1.9	1.6	1.7	0.9	0.8	2.5	0.4	4.3	2.6	1.3	1.0	2.4	4.9	1.4	2.3	2.5	2.5	2.4
STD ERR OF P	1.0	2.1	2.1	1.9	2.0	1.2	1.5	2.7	1.1	4.7	2.6	1.6	1.3	2.5	5.4	1.6	2.5	2.6	2.5	2.5
AGE: Ad																				
DELTA-P	32.5	1.6	-3.0	1.0	0.6	-5.7#	5.3#	6.9	-1.4*	9.7#	6.3*	-1.5	-14.5#	12.4#	-3.4	2.8	-2.4	0.9	-3.0	-11.0#
STD ERR OF DP		2.7	2.7	3.4	2.4	1.1	1.1	3.6	0.6	2.4	3.0	1.8	2.1	4.8	3.5	2.1	4.3	4.6	4.1	2.9
STD ERR OF P	1.7	2.7	2.9	4.6	2.4	2.0	2.1	4.0	1.8	3.4	3.2	2.3	2.1	5.0	3.4	3.0	4.6	5.1	4.4	2.7

772

771

RP01
OBJ IV

Television sets are on sale at two stores. One offers a 10 percent discount while the other offers 15 percent. What is the difference in the sale price at the two stores of a TV set that is regularly priced at $100?

ANSWER ____________________

SCORING GUIDE
RP01
P20001-234

00 = No Response

10 = $5.00; $85, $90 (must have both answers)

11 = 5; 5% of $100; 5%; 85, 90

20 = 25; $25; 25%

21 = 15; $15; 10; $10; 10%; 15%

22 = Other Unacceptable

39 = I Don't Know.

Report #: RP01

NAEP #: P20001-234

Content Area: F. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		04-06	01-14	06-06
National P-value:				
	RP01	48.69	75.56	86.37

Timing: (in seconds)				
	Stimulus:	17	17	17
	Response:	43	42	*
RP01	Exercise total:	60	59	*

*Time not limited by paced tape.

EXERCISE: BP01

TV sets are on sale at 2 stores. One offers a 10% discount, the other 15%. What is the difference in the sale price at the 2 stores of a TV set that is regularly priced at $100?

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	SIZE-AND-TYPE OF COMMUNITY EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	2.2	-0.3	-0.7	-0.1	1.1	-0.1	0.1	3.6#	-0.8#	0.9	1.7	-0.6	-0.7	3.2	-0.2	-1.0*	0.6	0.8	-0.1	-1.2
STD ERR OF DP		0.6	0.6	0.7	0.7	0.3	0.3	1.3	0.3	1.1	1.3	0.4	0.4	1.9	0.6	0.5	1.1	1.2	0.7	0.6
STD ERR OF P	0.4	0.6	0.6	0.8	0.8	0.4	0.5	1.5	0.4	1.1	1.4	0.5	0.5	2.0	0.6	0.5	1.2	1.3	0.7	0.6
AGE: 17																				
DELTA-P	1.4	-0.2	-0.1	-0.8*	1.0	-0.5	0.4	4.0*	-0.6*	0.7	0.3	0.2	-1.2#	2.8	-0.2	-1.2#	-0.1	3.4	0.4	-0.7
STD ERR OF DP		0.5	0.5	0.4	0.8	0.3	0.3	2.0	0.3	1.2	0.8	0.5	0.3	1.4	1.2	0.3	0.7	2.1	0.8	0.5
STD ERR OF P	0.3	0.6	0.6	0.3	1.0	0.3	0.5	2.2	0.2	1.2	0.8	0.5	0.1	1.6	1.2	0.1	0.7	2.3	0.9	0.4
AGE: Ad																				
DELTA-P	0.1	0.5	-0.1	-0.2	-0.2	-0.2	0.1*	0.3	-0.0	0.2	0.2	-0.2	-0.2	-0.2	0.5	-0.0	-0.2	-0.2	-0.2	0.2
STD ERR OF DP		0.3	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.2	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.3
STD ERR OF P	0.1	0.4	0.1	0.0	0.0	0.0	0.2	0.4	0.1	0.3	0.2	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.4
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	48.7	-4.2	-1.1	-0.9	5.6#	0.3	-0.3	-20.2#	5.4#	-11.7*	0.8	-2.8	10.0#	-17.0#	-9.6*	3.6	3.9	0.8	0.8	10.2#
STD ERR OF DP		2.6	2.7	2.4	2.2	1.1	1.1	2.9	0.9	4.7	3.1	1.9	1.5	4.1	8.5	2.0	3.7	3.9	3.5	3.5
P-VALUE	48.7	44.5	47.6	47.8	54.2	49.0	48.4	28.5	54.1	37.0	49.5	45.9	58.7	31.6	39.1	52.3	52.5	49.5	49.5	58.9
STD ERR OF P	1.4	2.8	3.2	2.9	2.3	1.7	1.9	2.8	1.4	5.2	3.3	2.1	1.9	4.1	5.0	2.2	3.9	4.2	3.7	3.7
AGE: 17																				
DELTA-P	75.6	-2.2	0.7	2.9	-1.8	6.2#	-6.0#	-23.6#	4.2#	-18.4#	-8.5#	1.2	7.5#	-13.7#	-8.4	1.9	3.1	-5.5	0.2	8.2#
STD ERR OF DP		2.3	2.2	2.0	2.5	1.2	1.2	3.4	0.8	4.7	2.7	1.6	1.2	4.7	4.9	1.4	2.6	6.3	2.9	2.8
P-VALUE	75.6	73.4	76.3	78.5	73.8	81.8	69.6	52.0	79.8	57.2	67.1	76.8	83.0	61.9	67.2	77.4	78.6	70.0	75.7	83.8
STD ERR OF P	1.3	2.5	2.6	2.2	3.1	1.8	1.8	3.8	1.2	4.9	2.8	2.0	1.2	4.8	5.1	1.6	2.7	6.8	3.1	2.9
AGE: Ad																				
DELTA-P	86.4	-4.5*	1.9	2.6	-1.1	4.1#	-3.8#	-19.9#	3.2#	-11.4#	-2.4	4.1#	[illegible]	-14.5#	-2.5	0.3	-0.1	6.2*	-2.9	8.7#
STD ERR OF DP		2.1	1.4	1.6	1.8	1.1	1.0	3.7	0.6	1.9	2.6	1.3	1.1	3.5	3.3	1.1	3.3	2.5	3.4	2.1
P-VALUE	86.4	81.9	88.3	88.9	85.3	90.5	82.6	66.4	89.5	75.0	83.9	90.4	95.8	[illegible]	83.9	86.7	86.2	92.6	83.4	95.1
STD ERR OF P	1.0	2.4	1.4	1.8	2.2	1.3	1.5	4.1	1.0	2.5	2.9	1.3	1.0	[illegible]	3.5	1.2	3.5	2.6	3.7	2.1
RESPONSE: 10 AGE: 13	TEXT: 5.00; $85 and $90 (must have both answers)																			
DELTA-P	32.4	-10.1#	-0.5	1.1	7.8#	2.6*	-2.7*	-20.8#	4.8#	-11.5#	-5.4	-2.9	12.0#	-17.7#	-7.7	1.0	2.1	4.4	1.9	13.9#
STD ERR OF DP		2.2	2.5	2.3	2.3	1.1	1.2	2.5	0.7	3.4	3.2	1.6	1.6	4.0	4.0	1.8	3.2	3.7	3.5	4.2
STD ERR OF P	1.4	2.3	3.0	2.7	2.7	1.9	1.7	2.2	1.5	3.6	3.6	2.0	2.2	3.8	4.6	2.2	3.4	3.7	3.7	4.4
AGE: 17																				
DELTA-P	68.6	-4.8	1.2	3.0	-0.3	7.2#	-6.9#	-31.9#	5.8#	-23.9#	-12.1#	2.2	9.1#	-20.9#	-13.1#	3.0	1.5	-7.8	2.7	12.1#
STD ERR OF DP		2.6	2.8	2.6	2.5	1.5	1.5	3.2	0.9	5.0	3.3	2.0	1.4	4.8	5.0	1.6	3.0	6.4	2.9	3.0
STD ERR OF P	1.5	2.7	3.4	3.0	2.9	2.1	2.1	3.4	1.4	5.2	3.1	2.4	1.7	4.8	5.2	2.0	3.2	6.8	3.1	3.1
AGE: Ad																				
DELTA-P	73.9	-5.0	1.5	2.7	-0.5	1.9	-1.8	-26.9#	4.6#	-15.2#	-7.4*	4.9#	15.9#	-19.0#	-4.7	-0.1	-1.3	8.7*	-4.6	14.8#
STD ERR OF DP		2.7	2.0	1.9	2.1	1.1	1.0	4.1	0.7	2.5	3.0	1.7	1.7	4.1	5.1	1.4	4.2	4.0	3.5	2.9
STD ERR OF P	1.2	3.1	2.3	2.2	2.5	1.6	1.6	4.5	1.2	2.8	3.4	1.9	1.6	4.1	5.4	1.5	4.7	4.3	3.8	2.9
RESPONSE: 11 AGE: 13	TEXT: 5; 5% of $100; 5%; 85 and 90																			
DELTA-P	16.3	6.0#	-0.6	-2.0	-2.2	-2.3*	2.4*	0.5	0.6	-0.1	6.2#	0.2	-2.0	0.7	-2.0	2.6	1.8	-3.6	-1.1	-3.7
STD ERR OF DP		1.6	1.5	1.4	1.2	1.0	1.1	2.1	0.5	3.7	2.3	1.0	1.0	2.1	2.6	1.6	2.1	2.1	2.1	3.2
STD ERR OF P	0.9	1.9	1.8	1.7	1.3	1.1	1.5	2.0	1.0	3.9	2.4	1.3	1.2	2.1	2.8	1.9	2.4	2.2	2.3	3.2
AGE: 17																				
DELTA-P	7.0	2.6	-0.5	-0.1	-1.4	-1.0	0.9	8.3#	-1.6#	5.5	3.6	-0.9	-1.7*	7.2*	4.7	-1.1	1.5	2.3	-2.5*	-3.9#
STD ERR OF DP		1.5	1.1	1.2	0.9	0.7	0.7	2.2	0.3	3.4	2.4	1.0	0.7	3.3	3.7	0.8	2.2	2.1	1.2	1.2
STD ERR OF P	0.7	1.8	1.3	1.4	0.9	1.0	1.0	2.4	0.7	[illegible]	2.6	1.0	1.0	3.4	3.9	1.0	2.3	2.1	1.2	1.1

EXERCISE: BP01

TV sets are on sale at 2 stores. One offers a 10% discount, the other 15%. What is the difference in the sale price at the 2 stores of a TV set that is regularly priced at $100?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 11 AGE: Ad	TEXT: 5; 5% of $100; 5%; 85 and 90																			
DELTA-P	12.5	0.5	0.4	-0.1	-0.6	2.2#	-2.1#	7.0#	-1.5#	3.8*	4.9	-0.8	-6.5#	4.4	2.3	0.4	1.2	-2.5	1.7	-6.1#
STD ERR OF DP		1.5	1.6	1.5	1.3	0.8	0.7	2.6	0.4	1.7	2.5	1.2	1.2	2.6	3.5	1.0	2.5	2.7	2.7	1.9
STD ERR OF P	0.8	1.6	1.9	1.8	1.4	1.3	0.9	2.9	0.9	1.8	3.0	1.3	1.3	2.6	3.7	1.3	2.7	2.9	3.0	2.0
RESPONSE: 20 AGE: 13	TEXT: 25; $25; 25%																			
DELTA-P	1.7	1.3*	-0.7	0.0	-0.4	-0.3	0.4	3.7#	-0.6#	1.7	2.3	-0.5	-0.9#	2.3	0.9	-0.2	-0.2	-1.3#	-0.4	-0.2
STD ERR OF DP		0.6	0.5	0.5	0.5	0.3	0.3	1.2	0.2	1.0	1.4	0.4	0.3	1.6	1.0	0.4	0.6	0.4	0.6	0.9
STD ERR OF P	0.3	0.6	0.6	0.5	0.6	0.3	0.5	1.3	0.2	1.1	1.5	0.4	0.3	1.8	1.1	0.4	0.6	0.3	0.7	1.0
AGE: 17																				
DELTA-P	0.9	0.0	-0.6*	-0.1	0.8	0.1	-0.1	2.0	-0.3	-0.9#	1.3	-0.1	-0.5*	0.8	-0.9#	-0.0	0.8	-0.7*	0.6	-0.9#
STD ERR OF DP		0.5	0.3	0.5	0.5	0.3	0.2	1.3	0.2	0.3	1.3	0.3	0.2	0.9	0.3	0.3	1.0	0.3	0.9	0.3
STD ERR OF P	0.3	0.5	0.2	0.6	0.7	0.4	0.4	1.4	0.3	0.1	1.5	0.3	0.3	1.0	0.1	0.4	1.2	0.2	1.0	0.0
AGE: Ad																				
DELTA-P	0.6	-0.1	-0.1	-0.4	0.6	-0.2	0.2	0.2	-0.2	0.8	0.2	-0.1	-0.4	-0.1	-0.6#	-0.0	-0.6#	0.3	1.2	-0.2
STD ERR OF DP		0.2	0.3	0.2	0.3	0.2	0.2	0.5	0.1	0.4	0.5	0.2	0.2	0.4	0.2	0.2	0.2	0.8	0.8	0.3
STD ERR OF P	0.2	0.2	0.3	0.2	0.4	0.2	0.3	0.5	0.1	0.4	0.5	0.3	0.2	0.4	0.0	0.2	0.0	0.9	0.8	0.4
RESPONSE: 21 AGE: 13	TEXT: 15; $15; 10; $10; 10%; 15%																			
DELTA-P	3.9	-0.2	0.6	-0.7	0.3	-0.0	0.0	-1.3	0.2	-1.4	-0.6	1.8*	-0.6	2.2	0.8	-1.3*	-0.2	0.0	-0.4	2.7
STD ERR OF DP		0.9	1.0	0.7	1.0	0.4	0.4	1.0	0.2	0.9	1.3	0.8	0.5	1.9	1.6	0.6	0.9	1.4	1.0	3.0
STD ERR OF P	0.5	0.9	1.2	0.8	1.2	0.7	0.7	1.0	0.6	1.0	1.4	1.1	0.6	2.0	1.8	0.5	1.0	1.4	1.0	3.2
AGE: 17																				
DELTA-P	3.8	0.9	-0.0	0.3	-1.0	-0.2	0.2	0.2	0.1	2.1	-0.0	-0.3	-0.5	-2.7#	2.4	-0.1	-1.6	1.5	2.0	-0.9
STD ERR OF DP		1.2	0.8	0.7	0.8	0.4	0.4	1.0	0.2	1.2	1.2	0.7	0.4	0.7	1.5	0.6	0.9	1.3	1.9	1.0
STD ERR OF P	0.5	1.4	0.9	0.7	0.8	0.6	0.6	1.0	0.6	1.2	1.3	0.9	0.6	0.6	1.5	0.6	0.8	1.3	2.2	1.1
AGE: Ad																				
DELTA-P	2.4	-1.0	1.1	0.1	-0.4	-0.8	0.7	0.9	-0.2	1.3	-0.3	0.4	-1.9#	1.5	0.2	-0.6	-0.1	-0.5	1.8	-0.4
STD ERR OF DP		0.6	1.1	0.9	0.7	0.5	0.4	1.3	0.2	0.9	0.7	0.7	0.4	1.3	1.0	0.6	1.1	1.3	1.7	1.8
STD ERR OF P	0.5	0.4	1.4	1.1	0.6	0.7	0.7	1.4	0.5	1.1	0.7	1.0	0.3	1.4	0.9	0.6	1.1	1.3	1.9	2.0
RESPONSE: 22 AGE: 13	TEXT: Other Unacceptable																			
DELTA-P	22.0	3.8#	-1.2	-0.2	-1.7	2.3#	-2.4#	10.6#	-2.0#	3.0	-2.4	3.7#	-3.7#	6.1#	4.7	2.3	-2.1	-4.6	-1.5	-10.2#
STD ERR OF DP		1.5	1.3	1.8	1.6	0.8	0.9	2.2	0.5	2.6	2.6	1.2	1.2	2.1	2.9	1.2	2.5	2.3	2.4	3.0
STD ERR OF P	0.9	1.5	1.3	2.3	1.8	1.4	1.0	2.2	1.2	2.7	2.8	1.4	1.6	2.1	3.2	1.4	2.7	2.4	2.6	3.0
AGE: 17																				
DELTA-P	10.2	1.6	-0.4	-2.0	1.1	-3.5#	3.4#	10.4#	-2.1#	5.3*	2.8	0.0	-2.0#	8.3*	-1.3	0.3	-1.9	0.3	-1.8	-1.9
STD ERR OF DP		1.3	1.6	1.3	1.7	0.7	0.8	2.2	0.5	2.5	1.6	1.1	0.7	3.4	2.6	0.8	1.2	2.8	2.0	2.2
STD ERR OF P	0.9	1.3	1.9	1.3	2.1	0.9	1.3	2.3	0.8	2.8	1.8	1.4	0.9	3.5	2.6	1.2	1.2	2.9	2.0	2.6
AGE: Ad																				
DELTA-P	5.7	1.6	-1.4	0.3	-0.2	-2.0#	1.9#	10.2#	-1.4#	4.3#	1.4	-2.2#	-3.1#	7.2#	0.3	-0.2	4.0	-3.9#	-0.7	-4.5#
STD ERR OF DP		1.0	0.8	1.2	1.1	0.7	0.6	2.8	0.4	1.1	1.8	0.9	0.9	2.2	1.5	0.9	2.4	1.3	1.2	0.9
STD ERR OF P	0.6	1.0	0.6	1.6	1.3	0.7	1.1	3.0	0.7	1.5	2.1	0.7	0.9	2.4	1.5	1.2	2.5	1.2	1.3	0.7
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	21.5	-0.5	3.2	1.9	-4.8*	-2.2*	2.3*	3.7	-2.2#	7.4	-1.8	-1.7	-4.1#	3.3	3.4	-3.3*	-2.1	4.3	1.5	-1.3
STD ERR OF DP		2.4	2.4	1.9	2.2	1.0	1.0	2.2	0.8	4.8	3.3	1.4	1.4	4.1	4.2	1.6	2.0	4.4	2.5	3.2
STD ERR OF P	1.3	2.7	3.0	2.2	2.5	1.6	1.7	2.1	1.3	5.2	3.7	1.7	1.7	4.2	4.7	1.7	2.0	4.9	2.7	3.3

777

778

EXERCISE: BP01

TV sets are on sale at 2 stores. One offers a 10% discount, the other 15%. What is the difference in the sale price at the 2 stores of a TV set that is regularly priced at $100?

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	8.0	-0.1	0.4	-0.3	-0.1	-2.1*	2.0*	6.9*	-1.3*	11.2*	4.2*	-1.0	-3.3*	4.5*	8.4	-0.8	-0.2	1.1	-1.3	-3.8*
STD ERR OF DP		1.5	1.4	1.3	1.2	0.7	0.7	2.1	0.3	4.3	1.7	1.0	0.8	1.9	4.7	0.9	1.8	2.3	1.7	1.6
STD ERR OF P	0.8	1.7	1.7	1.5	1.4	1.1	1.0	2.1	0.8	4.4	2.0	1.2	0.7	1.9	5.0	1.1	1.9	2.3	1.9	1.5
AGE: Ad																				
DELTA-P	4.8	3.5	-1.5	-2.4*	1.3	-1.0	0.9	8.4*	-1.4*	5.2*	1.0	-2.1*	-3.9*	6.1*	2.0	0.5	-3.1*	-1.9	0.9	-3.8*
STD ERR OF DP		1.9	0.9	0.9	1.2	0.7	0.7	3.0	0.4	1.4	2.0	0.7	0.8	2.8	2.9	0.8	0.9	1.6	2.8	0.9
STD ERR OF P	0.7	2.3	0.8	0.9	1.5	1.1	0.8	3.3	0.7	1.8	2.3	0.7	0.3	2.5	3.2	1.0	0.7	1.7	3.1	0.6

RP02
OBJ IV

A new automobile can be bought for cash for $2,850 or on credit with a down payment of $400 and $80 a month for three years. How much **MORE** would a person pay by buying on credit rather than by buying the car for cash?

ANSWER ____________________

SCORING GUIDE
RP02
P55002-34

00 = No Response

10 = $430; 430 dollars

11 = 430 with no sign or wrong sign

12 = Correct process with addition or multiplication error; any decimal of 430

13 = 3280 - 2850 with subtraction error

20 = 3280; any decimal of 3280; attempt to solve (36 x 80) + 400

21 = 30; attempt to solve (36 x 80) - 2850

22 = Attempt to multiply by wrong number of months

23 = Other Unacceptable

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

Report #: RP02

NAEP #: P55002-34

Content Area: F. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:		17	Adult
Package-Exercise:		02-16	01-01
National P-value:			
	RP02	55.76	67.67
Timing: (in seconds)			
	Stimulus:	19	19
	Response:	45	*
RP02	Exercise total:	64	*

*Time not limited by paced tape.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: RP02

A car can be bought for cash for $2,850 or on credit with a down payment of $400 and $80 a month for 3 years. How much MORE is buying on credit than paying with cash?

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	1.9	2.5	-0.9	0.1	-1.3	0.5	-0.4	5.9*	-1.1*	0.7	3.4	-0.6	-1.1*	0.8	-1.2	-1.3*	-1.1	15.6*	-1.0	-1.9*
STD ERR OF DP		1.8	0.7	1.0	0.7	0.5	0.4	2.1	0.4	1.2	2.3	0.5	0.4	1.2	0.9	0.6	0.7	7.5	0.9	0.6
STD ERR OF P	0.6	2.3	0.4	1.2	0.5	1.0	0.4	2.6	0.4	1.0	2.8	0.4	0.4	1.0	0.7	0.2	0.5	8.1	0.5	0.0
AGE: Ad																				
DELTA-P	0.2	0.2	-0.1	-0.1	0.0	0.0	-0.0	0.1	0.0	-0.1	-0.2*	0.0	0.1	-0.2*	0.8	-0.1	-0.2*	0.2	-0.2*	0.3
STD ERR OF DP		0.2	0.1	0.2	0.2	0.1	0.1	0.3	0.0	0.2	0.1	0.2	0.2	0.1	0.4	0.1	0.1	0.4	0.1	0.4
STD ERR OF P	0.1	0.2	0.1	0.2	0.3	0.2	0.1	0.3	0.1	0.1	0.0	0.2	0.3	0.0	0.4	0.1	0.0	0.4	0.0	0.5
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)																			
DELTA-P	55.8	-8.8*	-2.0	2.5	6.1*	-0.4	0.3	-31.0*	6.8*	-17.8*	-11.7*	-2.1	12.4*	-16.3*	-4.4	0.3	2.0	-13.3	4.5	18.5*
STD ERR OF DP		3.5	2.7	2.6	2.4	1.4	1.2	2.7	0.9	4.5	3.1	1.8	1.4	4.6	4.1	2.0	4.0	7.0	2.8	4.5
P-VALUE	55.8	46.9	53.7	58.2	61.8	55.4	56.1	24.8	62.5	37.9	44.0	53.7	68.2	39.5	51.3	56.1	57.8	42.5	60.3	74.3
STD ERR OF P	1.6	4.0	2.9	3.1	2.8	2.1	2.1	2.8	1.4	5.0	3.8	2.1	1.8	5.0	4.1	2.5	4.0	7.4	2.5	4.8
AGE: Ad																				
DELTA-P	67.7	-0.6	1.5	0.0	-1.2	6.6*	-6.2*	-38.4*	5.7*	-6.9*	-5.7	3.2	12.5*	-20.5*	3.0	1.0	-0.7	-3.0	1.7	10.8*
STD ERR OF DP		2.8	3.1	2.3	2.7	1.4	1.3	3.7	0.8	2.6	3.5	2.0	2.2	4.2	3.9	1.9	4.4	4.2	4.1	2.8
P-VALUE	67.7	67.1	69.2	67.7	66.5	74.3	61.5	29.3	73.4	60.8	62.0	70.9	80.2	47.2	70.7	68.7	67.0	64.6	69.3	78.5
STD ERR OF P	1.6	3.0	3.8	2.5	3.1	1.9	2.2	3.6	1.4	3.1	3.9	2.3	2.3	4.5	3.8	2.5	4.7	4.2	4.6	2.8
RESPONSE: 10 AGE: 17	TEXT: $430; 430 dollars																			
DELTA-P	51.7	-9.0*	-2.0	3.0	5.6*	-1.2	1.0	-32.8*	7.1*	-16.2*	-13.4*	-2.4	13.0*	-16.2*	-3.7	0.1	0.1	-10.3	4.3	19.3*
STD ERR OF DP		3.7	2.7	2.8	2.7	1.4	1.2	2.8	0.9	4.2	3.0	1.8	1.4	4.7	4.4	2.2	4.2	7.1	2.6	4.9
STD ERR OF P	1.7	4.2	2.7	3.4	3.3	2.2	2.1	2.7	1.6	4.6	3.6	2.2	2.0	5.0	4.4	2.8	4.2	7.5	2.6	5.2
AGE: Ad																				
DELTA-P	57.2	0.8	-1.4	-0.5	1.4	4.5*	-4.1*	-34.8*	5.4*	-9.6*	-7.1*	7.0*	10.9*	-19.8*	2.7	1.1	0.2	1.6	-3.4	11.3*
STD ERR OF DP		2.7	3.6	2.0	2.6	1.4	1.3	3.1	0.7	2.4	3.5	2.0	2.0	3.5	5.0	1.8	4.1	4.0	4.9	2.9
STD ERR OF P	1.6	3.0	4.6	1.9	2.8	2.2	2.0	3.1	1.5	2.9	3.7	2.4	2.4	3.6	5.2	2.3	4.4	4.1	5.4	3.3
RESPONSE: 11 AGE: 17	TEXT: 430 with no sign or wrong sign																			
DELTA-P	4.0	0.2	-0.1	-0.5	0.5	0.8	-0.7	1.8	-0.3	-1.7	1.7	0.4	-0.6	-0.1	-0.8	0.2	1.9	-3.0*	0.2	-0.8
STD ERR OF DP		0.8	0.8	1.0	0.7	0.5	0.4	1.3	0.3	1.3	1.0	0.7	0.5	1.4	1.0	0.9	1.8	0.6	1.3	1.2
STD ERR OF P	0.5	0.8	0.9	1.3	0.8	0.8	0.6	1.4	0.6	1.1	1.1	0.8	0.7	1.4	0.9	1.2	1.7	0.4	1.4	1.2
AGE: Ad																				
DELTA-P	10.5	-1.4	2.9*	0.5	-2.5	2.2*	-2.0*	-3.7*	0.3	2.7*	1.4	-3.8*	1.6	-0.7	0.4	-0.0	-0.9	-4.7*	5.1*	-0.5
STD ERR OF DP		1.5	1.4	1.6	1.5	0.8	0.7	1.8	0.3	1.3	1.7	1.0	1.2	2.2	2.0	1.1	1.6	2.0	2.4	2.6
STD ERR OF P	0.9	1.7	1.5	2.0	1.7	1.1	1.2	1.8	1.0	1.8	2.0	1.1	1.4	2.1	2.0	1.7	1.7	2.0	2.5	2.7
RESPONSE: 12 AGE: 17	TEXT: Correct process with addition or multiplication error; any decimal of 430																			
DELTA-P	6.7	-0.2	0.1	0.4	-0.4	0.3	-0.3	-3.6*	0.8*	-0.2	-2.6	1.4	-0.1	-2.6*	-0.0	0.1	0.1	1.2	2.6	-2.2
STD ERR OF DP		1.0	0.9	1.0	0.8	0.7	0.6	0.9	0.3	1.8	1.4	0.9	0.6	1.1	2.0	0.8	1.3	1.7	1.4	1.3
STD ERR OF P	0.5	1.1	1.0	1.3	0.9	0.9	0.8	0.9	0.7	1.9	1.3	1.1	0.8	1.2	2.1	1.0	1.3	1.8	1.5	1.3
AGE: Ad																				
DELTA-P	7.0	0.7	-0.6	0.7	-0.8	-0.9	0.8	2.7	-0.0	-0.5	4.1*	-0.3	-1.7	1.4	0.2	-0.3	3.3	-0.6	0.2	-3.1*
STD ERR OF DP		1.3	1.6	1.1	1.1	0.8	0.8	2.0	0.3	1.0	1.9	1.1	0.9	2.5	2.5	0.9	3.5	1.7	1.7	1.3
STD ERR OF P	0.8	1.4	2.1	1.3	1.2	1.2	1.0	2.1	0.9	1.4	2.2	1.3	1.0	2.6	2.6	1.2	3.9	1.6	1.7	1.3
RESPONSE: 13 AGE: 17	TEXT: 3280 - 2850 with subtraction error																			
DELTA-P	0.9	-0.0	0.1	0.3	-0.4	0.4	-0.3	-0.7*	[illegible].1*	-0.7*	0.9	0.2	-0.1	-0.7*	1.4	-0.3	-0.4	2.0	0.6	-0.9*
STD ERR OF DP		0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.1	0.3	1.0	0.3	0.2	0.2	1.1	0.2	0.5	1.3	0.8	0.2
STD ERR OF P	0.2	0.5	0.5	0.5	0.3	0.4	0.3	0.1	0.3	0.2	1.1	0.4	0.3	0.1	1.2	0.2	0.5	1.4	0.9	0.0

EXERCISE: RP02

A car can be bought for cash for $2,850 or on credit with a down payment of $400 and $80 a month for 3 years. How much MORE is buying on credit than paying with cash?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 13 AGE: Ad TEXT: 3280 - 2850 with subtraction error																				
DELTA-P	1.5	-0.3	-0.6	0.9#	-0.2	0.4	-0.3	-1.5#	0.2*	0.1	-0.6	1.1	-1.1#	0.6	-0.9	0.8*	-1.5#	0.0	-0.8	-0.1
STD ERR OF DP		0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.1	0.6	0.5	0.6	0.3	0.9	0.6	0.3	0.2	1.0	0.5	0.8
STD ERR OF P	0.2	0.5	0.4	0.5	0.4	0.5	0.3	0.0	0.3	0.6	0.5	0.8	0.2	1.0	0.5	0.4	0.0	1.1	0.5	0.8
RESPONSE: 20 AGE: 17 TEXT: 3280; any decimal of 3280; attempt to solve (36 x 80) + 400																				
DELTA-P	1.8	0.1	0.3	-0.3	-0.0	1.0#	-0.9#	0.1	-0.0	1.8	-0.9	0.7	-0.5	2.1	-0.6	0.3	1.2	-0.8	-1.2#	-1.8#
STD ERR OF DP		0.4	0.5	0.4	0.6	0.4	0.3	0.7	0.1	1.4	0.6	0.5	0.4	1.2	0.8	0.4	1.1	0.5	0.4	0.3
STD ERR OF P	0.3	0.3	0.6	0.4	0.8	0.6	0.3	0.7	0.3	1.4	0.5	0.7	0.4	1.4	0.8	0.5	1.1	0.5	0.4	0.0
AGE: Ad																				
DELTA-P	1.2	0.8*	0.7	-0.1	0.1	-0.0	0.0	0.3	-0.3	1.4*	-0.6	-0.3	-0.5	-0.5	-0.4	-0.4	0.3	0.9	-0.3	1.4
STD ERR OF DP		0.4	0.6	0.5	0.5	0.3	0.3	0.8	0.2	0.7	0.3	0.4	0.4	0.6	0.6	0.3	1.1	1.3	0.6	1.2
STD ERR OF P	0.3	0.3	0.7	0.5	0.5	0.4	0.3	0.9	0.3	0.8	0.4	0.5	0.4	0.5	0.6	0.3	1.1	1.4	0.7	1.3
RESPONSE: 21 AGE: 17 TEXT: 30; attempt to solve (36 x 80) - 2850																				
DELTA-P	5.8	0.7	-1.6*	-0.4	1.3	0.9	-0.7	-0.4	0.3	-0.2	0.6	1.1	-0.8	1.7	-2.8*	-0.1	-1.1	-1.2	1.6	-0.5
STD ERR OF DP		1.4	0.7	0.9	1.0	0.7	0.6	1.2	0.3	2.7	1.4	0.6	0.6	2.1	1.2	0.7	1.2	2.2	1.2	1.6
STD ERR OF P	0.6	1.6	0.6	1.1	1.2	1.0	0.7	1.2	0.7	2.9	1.5	0.9	0.7	2.3	1.2	0.9	1.1	2.3	1.4	1.8
AGE: Ad																				
DELTA-P	3.9	-1.9#	-0.6	1.0	1.2	0.4	-0.4	2.9	-0.4	-0.6	0.8	0.2	-0.7	-0.1	-1.4	0.3	-1.9	2.7	1.1	-1.1
STD ERR OF DP		0.8	1.0	1.1	1.0	0.6	0.6	2.3	0.4	0.7	1.5	0.9	1.0	1.2	1.4	0.7	1.0	2.8	2.0	1.2
STD ERR OF P	0.6	0.6	1.1	1.5	1.1	1.0	0.6	2.5	0.6	0.9	1.7	1.0	1.1	1.1	1.3	0.9	0.8	3.1	2.3	1.1
RESPONSE: 22 AGE: 17 TEXT: Attempt to multiply by wrong number of months																				
DELTA-P	0.8	0.0	0.4	-0.2	-0.2	0.0	-0.0	0.1	-0.0	0.6	-0.4	-0.2	0.1	-0.5	-0.1	0.2	-0.2	0.4	-0.2	0.1
STD ERR OF DP		0.4	0.4	0.3	0.3	0.2	0.2	0.5	0.1	0.7	0.3	0.3	0.2	0.3	0.5	0.3	0.4	1.0	0.4	0.7
STD ERR OF P	0.2	0.5	0.4	0.3	0.4	0.3	0.3	0.5	0.2	0.7	0.3	0.4	0.3	0.3	0.5	0.4	0.4	1.1	0.4	0.8
AGE: Ad																				
DELTA-P	0.1	-0.1	0.1	0.1	-0.1	-0.1	0.1	-0.1	0.0	-0.1	0.3	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	0.5
STD ERR OF DP		0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5
STD ERR OF P	0.1	0.0	0.1	0.3	0.0	0.1	0.2	0.0	0.1	0.1	0.5	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.6
RESPONSE: 23 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	19.6	4.6*	3.8	-3.6	-3.1	-2.1*	1.8*	26.0#	-5.9#	4.4	6.5#	-0.7	-5.9#	14.0#	4.0	0.6	-0.5	1.9	-7.0#	-10.3#
STD ERR OF DP		2.3	2.0	1.8	1.7	0.9	0.8	2.7	0.9	3.6	2.2	1.5	1.1	2.8	4.1	1.5	2.3	5.4	2.2	2.9
STD ERR OF P	1.1	2.5	2.2	2.2	2.0	1.4	1.4	2.8	0.8	4.1	2.6	1.8	1.3	3.0	4.2	1.9	2.3	5.5	2.3	3.0
AGE: Ad																				
DELTA-P	11.7	1.6	1.0	-1.9	-0.2	-2.6#	2.4#	19.3#	-2.0#	3.0*	-1.5	-0.9	-3.5#	10.0#	1.0	-1.4	0.4	-1.0	-0.5	-2.9
STD ERR OF DP		1.5	1.5	1.6	1.5	0.9	0.8	4.1	0.5	1.7	1.7	1.2	1.1	3.1	3.4	1.1	2.5	2.6	3.6	2.7
STD ERR OF P	0.9	1.6	1.8	2.1	1.6	1.2	1.3	4.2	0.9	1.9	1.8	1.6	1.2	3.2	3.6	1.2	2.6	2.6	3.9	2.9
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	6.9	1.1	-0.2	1.3	-2.0	-0.7	0.6	3.5	-0.8*	11.4	4.2*	0.2	-4.0#	1.6	3.8	0.1	-0.2	-5.9#	0.1	-1.1
STD ERR OF DP		1.6	1.2	2.0	1.2	1.0	0.9	1.9	0.4	6.9	2.0	1.2	1.0	2.1	3.3	1.5	1.7	1.1	1.8	2.1
STD ERR OF P	0.9	1.7	1.0	2.7	1.1	1.7	0.8	1.9	1.1	7.6	2.2	1.2	0.5	2.1	3.5	2.2	1.6	0.7	1.7	2.0
AGE: Ad																				
DELTA-P	6.6	1.3	-1.3	-0.8	1.2	-3.9#	3.6#	14.7#	-2.5#	2.8	3.5	-3.0#	-5.0#	9.4*	-2.2	0.1	0.5	1.0	-1.2	-5.7#
STD ERR OF DP		1.9	1.5	1.6	2.0	1.0	0.9	3.2	0.6	1.5	2.3	0.8	1.0	4.1	2.0	1.1	2.0	3.3	2.0	1.3
STD ERR OF P	1.0	2.1	1.7	1.9	2.4	0.6	1.8	3.8	0.7	1.7	2.9	0.9	0.7	4.5	1.9	1.6	2.4	3.3	2.1	0.7

RP03
OBJ IV

If a city's property tax is $29.87 per $1,000 of assessed value, the tax on property assessed at $14,900 would be CLOSEST to which amount?

- ○ $400
- ○ $420
- ● $450
- ○ $470

- ○ I don't know.

Report #: RP03

NAEP #: F70001-38

Content Area: F. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		03-20	07-06
National P-value:	RP03	80.29	56.83

Timing: (in seconds)			
	Stimulus:	24	27
	Response:	32	*
	I don't know:	5	*
	Pause:	6	*
RP03	Exercise total:	67	*

*Time not limited by paced tape.

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                              NATION |             REGION            |      SEX       |     RACE       |   PARENTAL EDUCATION             |            SIZE-AND-TYPE OF COMMUNITY
                                     | SOUTH                   NORTH |                |                |         SOME    GRAD    POST     |  LOW   EXTREME SMALL  MEDIUM  MAIN   URBAN   HIGH
                              -------| EAST   WEST  CENTRAL   EAST   |  MALE   FEMALE | BLACK   WHITE  | NO HS   HS      HS      HS       | METRO  RURAL  PLACES  CITY  BIG CTY FRINGE METRO

EXERCISE: RP03
If a city's property tax is $29.87 per $1,000 of assessed value, the tax on property assessed at $14,900 would be CLOSEST to which amount?

RESPONSE:  00    AGE: 17        TEXT:  No Response.
     DELTA-P                   0.4    -0.0   -0.0   -0.1    0.1      0.1   -0.1      0.4   -0.1    -0.4*   0.1   -0.2   -0.2      0.6    0.2   -0.3*   0.4    0.2   -0.1   -0.1
     STD ERR OF DP                     0.3    0.2    0.2    0.2      0.1    0.1      0.5    0.1     0.1    0.3    0.2    0.1      0.8    0.6    0.1    0.5    0.5    0.2    0.2
     STD ERR OF P              0.1     0.3    0.2    0.2    0.3      0.2    0.1      0.6    0.1     0.0    0.4    0.1    0.2      0.8    0.6    0.1    0.6    0.5    0.3    0.2

                 AGE: Ad
     DELTA-P                   0.1    -0.1    0.2   -0.1   -0.1     -0.1    0.1     -0.1    0.0    -0.1   -0.1   -0.1    0.2     -0.1   -0.1   -0.1   -0.1    0.7   -0.1   -0.1
     STD ERR OF DP                     0.1    0.2    0.1    0.1      0.1    0.1      0.1    0.0     0.1    0.1    0.1    0.2      0.1    0.1    0.1    0.1    0.7    0.1    0.1
     STD ERR OF P              0.1     0.0    0.1    0.0    0.0      0.0    0.1      0.0    0.1     0.0    0.0    0.0    0.3      0.0    0.0    0.0    0.0    0.8    0.0    0.0

RESPONSE:  01    AGE: 17        TEXT:  $400
     DELTA-P                   8.1    -0.2   -0.1    0.9   -0.9     -1.2*   1.2*     3.3*  -0.4     0.8    4.4*  -0.4   -0.6      2.0    3.3    0.1    0.9    0.4   -2.9   -2.0
     STD ERR OF DP                     0.9    0.8    1.0    0.9      0.6    0.6      1.6    0.3     2.4    2.1    0.8    0.7      2.0    1.8    0.8    1.2    1.6    1.8    1.5
     STD ERR OF P              0.5     1.0    0.8    1.2    1.1      0.7    0.9      1.6    0.7     2.6    2.3    1.0    0.8      2.0    2.0    1.1    1.2    1.5    1.9    1.5

                 AGE: Ad
     DELTA-P                   7.1    -1.0    0.2   -0.9    1.6     -1.2    1.1      3.5   -1.3*    1.4    1.7    0.4   -3.0*     4.1    0.3   -0.6    2.2    1.3    1.5   -5.0*
     STD ERR OF DP                     0.9    1.2    0.9    1.3      0.7    0.6      2.3    0.5     1.1    1.6    1.0    0.9      3.2    1.8    0.6    2.2    2.8    2.0    1.1
     STD ERR OF P              0.6     0.6    1.5    1.0    1.6      0.8    1.0      2.6    0.5     1.4    1.7    1.2    0.9      3.4    1.7    0.7    2.5    3.0    2.0    0.9

RESPONSE:  02    AGE: 17        TEXT:  $420
     DELTA-P                  17.7     0.4    3.0   -0.3   -2.4      1.1   -1.1     -3.1    0.5    -2.4    1.8    1.6   -0.3      1.6   -2.7    0.2   -1.2    4.6    1.8   -4.2*
     STD ERR OF DP                     1.9    2.0    1.7    1.7      0.8    0.8      2.0    0.5     2.8    2.5    1.3    1.0      3.8    2.5    1.7    2.0    4.6    1.9    2.0
     STD ERR OF P              1.1     2.1    2.2    2.1    2.0      1.6    1.1      1.8    1.4     3.1    2.7    1.9    1.3      4.0    2.6    2.1    1.9    5.0    2.1    1.9

                 AGE: Ad
     DELTA-P                  13.8    -2.3   -1.0    2.0    0.7     -3.2*   3.0*     5.5   -0.8    -2.3    5.7*   0.9   -2.6*     8.5*   2.0    0.1   -2.0   -1.6   -4.4   -0.7
     STD ERR OF DP                     1.4    1.2    1.5    1.5      0.9    0.8      2.9    0.5     1.2    2.1    1.4    1.3      3.5    3.3    0.9    2.1    3.8    2.8    2.4
     STD ERR OF P              0.8     1.5    1.2    1.8    1.8      1.1    1.2      3.1    0.5     1.2    2.3    1.6    1.5      3.6    3.5    1.1    2.2    4.1    2.7    2.5

RESPONSE:  03*   AGE: 17        TEXT:  $450
     DELTA-P                  40.3    -9.1*  -1.2    3.4    4.7*     3.9*  -3.9*   -20.5*   3.3*   -7.0  -11.2*  -2.0    7.3*   -13.6*  -7.5*   0.8    2.4   -6.5*   3.3   12.2*
     STD ERR OF DP                     2.5    2.1    1.8    2.0      1.2    1.1      3.0    0.6     4.1    3.2    1.4    1.3      3.9    3.4    1.6    3.0    2.9    3.3    3.5
     P-VALUE                  40.3    31.2   39.1   43.7   44.9     44.2   36.4     19.8   43.6    33.3   29.1   38.3   47.6     26.7   32.8   41.1   42.7   33.6   43.5   52.5
     STD ERR OF P              1.2     3.0    2.2    2.1    2.2      1.7    1.7      2.8    1.3     4.2    3.5    2.0    1.6      3.6    3.9    2.0    3.2    2.9    3.5    3.7

                 AGE: Ad
     DELTA-P                  56.4    -0.9    3.2   -1.3   -1.2      8.4*  -7.8*   -29.6*   5.0*  -11.0*  -7.6*   4.5*  13.4*   -20.6*  -2.7   -0.5    4.3   -0.1    2.0   12.0*
     STD ERR OF DP                     3.7    3.1    3.2    3.0      1.1    1.0      3.4    0.8     2.0    2.7    2.1    1.9      4.5    4.0    2.0    5.1    4.2    3.5    3.4
     P-VALUE                  56.4    55.6   59.6   55.0   55.3     64.8   48.7     26.9   61.4    45.5   48.8   60.9   69.8     35.8   53.7   55.9   60.7   56.4   58.4   68.4
     STD ERR OF P              1.9     4.2    3.6    3.9    3.4      2.2    2.0      3.7    1.9     3.2    2.5    3.0    2.0      4.4    3.9    3.1    6.0    4.4    3.4    3.5

RESPONSE:  04    AGE: 17        TEXT:  $470
     DELTA-P                  17.9     7.1*  -2.8   -0.4   -3.2*    -0.5    0.5     13.4*  -2.3*    4.1    0.6    0.8   -2.4*     5.5    4.6    1.1   -0.7   -0.7   -2.2   -6.7*
     STD ERR OF DP                     2.2    1.5    1.4    1.3      0.9    0.9      2.6    0.5     3.1    2.5    1.3    0.9      4.6    2.5    1.3    2.0    3.7    3.1    2.1
     STD ERR OF P              0.9     2.7    1.5    1.7    1.4      1.4    1.2      2.9    0.9     3.4    2.7    1.6    1.1      4.9    2.7    1.5    2.1    3.7    3.3    2.1

                 AGE: Ad
     DELTA-P                  14.4     0.8   -1.8    2.9   -1.9     -1.9    1.7     17.2*  -2.1*    6.4*  -0.3   -4.2*  -3.1*     4.3   -0.7   -0.0   -3.3    2.9    3.5   -4.6*
     STD ERR OF DP                     2.4    1.8    2.4    1.7      1.0    1.0      3.4    0.6     1.6    2.1    1.4    1.3      2.9    2.8    1.5    2.3    4.1    3.7    2.1
     STD ERR OF P              1.2     2.7    1.8    3.1    1.5      1.7    1.5      3.6    1.3     2.1    2.1    2.0    1.3      2.9    2.9    2.1    2.1    4.4    4.1    2.1

RESPONSE:  08    AGE: 17        TEXT:  I Don't Know.
     DELTA-P                  15.6     1.8    1.2   -3.6*   1.7     -3.4*   3.3*     6.0*  -1.0*    5.0*   4.4    0.3   -3.9*     4.0    2.1   -1.9   -1.7    2.0    0.2    0.0
     STD ERR OF DP                     1.9    1.5    1.4    1.9      0.7    0.7      2.6    0.4     2.4    2.7    1.3    1.0      3.4    2.6    1.4    1.7    3.0    2.8    2.1
     STD ERR OF P              1.0     2.2    1.5    1.5    2.4      1.1    1.4      2.8    1.1     2.6    3.0    1.7    1.2      3.5    2.7    1.8    1.6    3.3    3.3    2.3
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EXERCISE: RP03

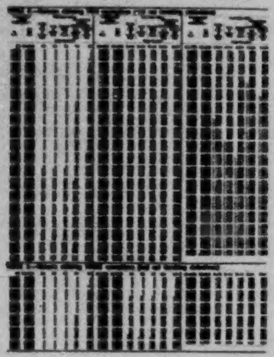
If a city's property tax is $29.87 per $1,000 of assessed value, the tax on property assessed at $14,900 would be CLOSEST to which amount?

RESPONSE: 09 AGE: A4 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	8.2	3.4*	-0.7	-2.6*	0.8	-2.1#	1.9#	3.4	-0.8*	5.6#	0.6	-1.9	-4.9#	3.8	1.3	1.2	-1.1	-3.3	-2.5	-1.6
STD ERR OF DP		1.6	1.8	1.1	1.7	0.6	0.6	2.0	0.4	1.6	1.7	1.0	0.8	2.1	2.3	1.1	2.0	1.9	1.7	2.3
STD ERR OF P	0.8	1.7	1.7	1.0	2.1	1.0	1.0	2.0	0.9	2.1	1.8	0.9	0.9	2.1	2.3	1.6	2.1	1.9	1.6	2.5

[illegible]
[illegible] V

A married couple with an adjusted gross income of $4,588 claim three exemptions on their federal income tax return, and elect to file a joint return. According to the tables below, how much tax must they pay?



[illegible]
[illegible] V

ANSWER ____________________

SCORING GUIDE
[illegible]
[illegible]

00 = No Response

10 = $215

11 = 215 with no units, wrong units, or decimal error

20 = 200; $200

21 = 230; $230

22 = 225; $225

23 = 310; $310

24 = 310; $310

25 = 332; $332

26 = 343; $343

27 = Other Unacceptable

99 = I Don't Know.

Report #: [illegible]

NAEP #: [illegible]

Content Area: F. BUSINESS AND CONSUMER MATHEMATICS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		Adult
Package-Exercise:		[illegible]
National P-value:		
	[illegible]	55.03

Timing: (in seconds)

	Stimulus:	18
	Response:	*
[illegible]	Exercise total:	*

*Time not limited by paced tape.

EXERCISE: RP04

A married couple with an adjusted gross income of $4,500 claim 3 exemptions on their federal income tax return, and elect to file a joint return. How much tax must they pay?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: Ad	TEXT: No Response.																			
DELTA-P	0.8	0.1	0.1	-0.8#	0.8	0.3	-0.3	3.1	-0.4	0.0	0.6	0.3	-0.7*	2.4	0.8	-0.2	-0.2	-0.3	-0.5	-0.8#
STD ERR OF DP		0.6	0.4	0.3	0.9	0.4	0.3	2.4	0.3	0.4	0.7	0.6	0.3	2.7	1.0	0.4	0.5	0.6	0.4	0.3
STD ERR OF P	0.3	0.6	0.4	0.0	1.2	0.6	0.2	2.7	0.2	0.3	0.7	0.9	0.1	2.9	1.0	0.3	0.4	0.5	0.3	0.0
RESPONSE: 01* AGE: Ad	TEXT: All Acceptable Responses.																			
DELTA-P	55.0	-7.2*	1.1	1.2	3.5	5.1#	-4.7#	-35.9#	5.8#	-11.7#	-4.9	2.8	14.6#	-26.5#	-2.9	0.5	3.2	0.2	0.1	16.0#
STD ERR OF DP		3.0	3.0	2.6	2.6	1.1	1.1	2.8	0.8	2.3	3.3	2.0	2.2	4.3	3.7	2.0	4.1	3.6	3.7	3.9
P-VALUE	55.0	47.8	56.1	56.3	58.5	60.1	50.3	19.2	60.8	43.3	50.1	57.9	69.6	28.5	52.2	55.6	58.2	55.3	55.1	71.1
STD ERR OF P	1.6	3.2	3.8	3.1	2.8	1.8	2.1	3.0	1.6	2.9	3.7	2.6	2.4	4.7	3.6	2.2	4.0	3.8	4.4	4.4
RESPONSE: 10 AGE: Ad	TEXT: $215																			
DELTA-P	40.6	-5.4	-0.1	2.3	2.0	1.1	-1.0	-29.4#	5.3#	-12.2#	-4.4	5.1#	12.0#	-23.4#	-6.2	2.8	3.0	-0.4	-2.7	12.3#
STD ERR OF DP		2.8	2.9	2.2	2.5	1.2	1.1	2.5	0.7	2.2	3.1	2.0	2.2	3.0	3.5	1.8	4.5	4.8	3.0	4.4
STD ERR OF P	1.5	3.1	3.6	2.4	2.8	2.0	1.8	2.6	1.6	2.6	3.3	2.6	2.5	2.7	3.5	2.1	4.7	5.1	3.3	5.0
RESPONSE: 11 AGE: Ad	TEXT: 215 with no units, wrong units, or decimal error																			
DELTA-P	14.4	-1.8	1.2	-1.1	1.6	4.0#	-3.7#	-6.4#	0.4	0.5	-0.5	-2.3	2.5	-3.1	3.4	-2.3*	0.2	0.6	2.8	3.7
STD ERR OF DP		1.8	1.8	1.7	1.8	0.9	0.9	2.3	0.4	2.0	2.0	1.2	2.0	2.7	2.7	1.0	2.3	3.9	2.6	2.8
STD ERR OF P	1.0	2.0	2.2	2.0	2.0	1.5	1.2	2.2	1.2	2.3	2.1	1.6	2.3	3.0	2.8	1.3	2.6	4.1	3.0	2.9
RESPONSE: 20 AGE: Ad	TEXT: 208; $208																			
DELTA-P	1.8	-0.7	-0.0	0.8	-0.3	0.7	-0.6	0.2	0.1	-0.8	-0.6	0.8	-0.2	0.4	-1.0	-0.1	0.4	-1.5#	0.7	0.7
STD ERR OF DP		0.5	0.5	0.6	0.5	0.4	0.3	1.4	0.2	0.5	0.6	0.6	0.5	1.3	0.9	0.4	1.3	0.4	0.8	1.0
STD ERR OF P	0.3	0.5	0.6	0.8	0.6	0.6	0.3	1.5	0.3	0.5	0.6	0.7	0.6	1.5	0.9	0.4	1.3	0.3	0.8	1.1
RESPONSE: 21 AGE: Ad	TEXT: 220; $220																			
DELTA-P	0.8	0.1	0.3	-0.4	0.2	0.3	-0.3	0.1	-0.1	0.1	0.4	0.0	-0.3	0.7	0.0	-0.3	0.4	-0.8#	1.6*	-0.8#
STD ERR OF DP		0.4	0.4	0.3	0.3	0.3	0.2	0.8	0.2	0.4	0.7	0.4	0.3	1.1	0.8	0.2	0.6	0.2	0.8	0.2
STD ERR OF P	0.2	0.4	0.5	0.3	0.4	0.4	0.2	0.8	0.2	0.5	0.7	0.4	0.3	1.2	0.9	0.2	0.6	0.0	0.9	0.0
RESPONSE: 22 AGE: Ad	TEXT: 225; $225																			
DELTA-P	3.3	0.2	-0.7	1.1	-0.7	-0.7	0.7	0.2	-0.1	0.1	0.7	0.5	-0.9	-1.4	-0.5	0.8	-1.6*	2.0	-0.4	-0.7
STD ERR OF DP		0.6	0.6	0.8	0.5	0.4	0.4	1.4	0.2	0.7	1.1	0.9	0.7	1.1	1.3	0.6	0.7	1.2	1.2	1.0
STD ERR OF P	0.4	0.6	0.7	1.1	0.5	0.4	0.7	1.3	0.5	0.8	1.2	1.0	0.6	1.1	1.3	0.8	0.7	1.3	1.2	1.1
RESPONSE: 23 AGE: Ad	TEXT: 310; $310																			
DELTA-P	0.6	0.3	-0.3	-0.0	0.1	-0.3	0.3	0.5	-0.0	-0.1	-0.1	0.1	-0.0	-0.0	-0.2	0.3	0.3	-0.1	-0.6#	-0.2
STD ERR OF DP		0.4	0.2	0.3	0.3	0.2	0.2	0.6	0.1	0.3	0.3	0.3	0.2	0.5	0.5	0.3	0.5	0.5	0.2	0.4
STD ERR OF P	0.2	0.4	0.2	0.3	0.4	0.2	0.3	0.6	0.2	0.3	0.3	0.4	0.2	0.4	0.5	0.3	0.5	0.5	0.0	0.5
RESPONSE: 24 AGE: Ad	TEXT: 318; $318																			
DELTA-P	9.8	-1.0	0.9	0.6	-0.8	0.7	-0.7	2.4	-0.2	-0.3	-0.2	1.0	-0.5	2.9	1.7	-0.1	-2.5	2.8	1.7	-4.1#
STD ERR OF DP		1.6	1.4	1.7	1.1	0.8	0.7	1.7	0.3	1.3	2.1	1.1	1.1	2.8	2.5	1.0	1.3	2.6	2.2	1.4
STD ERR OF P	0.9	1.7	1.6	2.1	1.0	1.1	1.1	1.9	0.9	1.5	2.5	1.4	1.1	2.9	2.6	1.3	1.3	3.0	2.4	1.5
RESPONSE: 25 AGE: Ad	TEXT: 332; $332																			
DELTA-P	0.2	-0.2	-0.2	-0.1	0.4	-0.1	0.1	-0.2	0.0	-0.2	-0.2	-0.2	0.5	-0.2	-0.2	0.1	-0.2	-0.2	-0.2	0.4
STD ERR OF DP		0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.6
STD ERR OF P	0.1	0.0	0.0	0.1	0.4	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.6
RESPONSE: 26 AGE: Ad	TEXT: 343; $343																			
DELTA-P	0.1	0.0	-0.2	0.1	-0.0	0.1	-0.1	-0.2	-0.1	-0.0	-0.2	-0.2	0.2	0.2	0.3	-0.2	-0.2	0.8	-0.2	-0.2
STD ERR OF DP		0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.4	0.1	0.1	0.9	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.3	0.1	0.2	0.1	0.0	0.1	0.1	0.0	0.0	0.3	0.3	0.5	0.0	0.0	1.0	0.0	0.0

EXERCISE: RP29

A married couple with an adjusted gross income of $4,599 claim 3 exemptions on their federal income tax return, and elect to file a joint return. How much tax must they pay?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 27 AGE: Ad TEXT: Other Unacceptable																				
DELTA-P	14.7	2.3	1.1	-0.5	-2.6	-1.9	1.7	7.0*	-1.1#	5.2#	-0.7	-0.4	-4.1#	8.4*	2.9	-1.6	1.8	-0.1	-2.9	-1.9
STD ERR OF DP		1.7	2.1	1.4	1.6	1.0	1.0	3.3	0.4	1.7	2.1	1.3	1.6	4.1	3.0	1.2	3.0	3.4	2.4	3.4
STD ERR OF P	1.9	1.8	2.7	1.4	1.9	1.3	1.4	3.4	1.1	2.0	2.1	1.8	1.8	4.5	3.1	1.2	3.0	3.5	2.8	3.8
RESPONSE: 39 AGE: Ad TEXT: I Don't Know.																				
DELTA-P	12.9	6.1*	-2.0	-2.0	-0.7	-4.3#	4.0#	22.7#	-3.8#	7.7#	5.0*	-4.8#	-8.4#	13.0#	-1.0	0.8	-1.4	-2.8	0.7	-8.7#
STD ERR OF DP		2.6	2.0	1.4	1.6	1.0	0.9	3.3	0.6	2.4	2.1	1.3	1.2	4.4	3.0	1.3	3.5	2.6	3.1	1.7
STD ERR OF P	1.0	3.0	2.5	1.4	1.6	1.1	1.7	3.6	0.7	3.0	2.3	1.2	1.1	4.9	3.2	1.6	3.6	2.5	3.4	1.3

RP05
OBJ IV

A door-to-door salesman receives 20 percent of the retail value of his sales as commission. What must his total retail sales be if he is to earn a commission of $60?

ANSWER ______________________

SCORING GUIDE
RP05
C50018-34

00 = No Response

10 = $300

11 = 300 with no sign or wrong sign

12 = Correct process with no answer or wrong answer; e.g., X/5 = 60; 60 = .20X; 60 x 5; X times 1/5 = 60; any decimal of 300

20 = 240; $240

21 = 1200; $1200; 12; any decimal of 1200; attempt to multiply 20 by 60 or .20 by 60

22 = 80; $80

23 = Other Unacceptable

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

Report #: RP05

NAEP #: C50018-34

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		03-13	02-09
National P-value:			
	RP05	36.60	57.20
Timing: (in seconds)			
	Stimulus:	12	13
	Response:	46	*
RP05	Exercise total:	58	*

*Time not limited by paced tape.

EXERCISE: RP05

A door-to-door salesman receives 20 percent of the retail value of his sales as commission. What must his total retail sales be if he is to earn a commission of $60?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	2.0	0.3	-0.0	0.1	-0.3	-0.6	0.6	1.6	-0.3	-0.9	1.5	0.4	-0.9#	1.6	-1.1	-0.3	1.3	0.2	-0.1	-0.7
STD ERR OF DP		0.6	0.6	0.6	0.6	0.3	0.3	1.1	0.2	0.5	1.6	0.6	0.3	1.4	0.6	0.5	1.4	1.2	0.8	0.9
STD ERR OF P	0.3	0.6	0.7	0.7	0.7	0.4	0.6	1.2	0.4	0.5	1.7	0.7	0.4	1.4	0.5	0.5	1.5	1.3	0.9	1.0
AGE: Ad																				
DELTA-P	0.6	1.0	-0.4	-0.6*	0.2	0.2	-0.2	-0.1	0.1	-0.2	-0.3	0.6	-0.6*	-0.6*	0.4	-0.2	-0.6*	1.0	1.3	-0.6*
STD ERR OF DP		0.9	0.3	0.3	0.4	0.3	0.3	0.5	0.1	0.3	0.3	0.5	0.3	0.3	0.6	0.3	0.3	1.1	1.6	0.3
STD ERR OF P	0.3	1.1	0.2	0.0	0.5	0.5	0.2	0.5	0.3	0.2	0.2	0.8	0.0	0.0	0.6	0.2	0.0	1.2	1.9	0.0
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)																			
DELTA-P	36.6	-6.6#	-3.2	0.7	7.3#	7.1#	-7.0#	-26.6#	4.5#	-11.6#	-12.5#	-2.8	9.8#	-19.4#	-4.5	1.6	-3.1	-3.9	2.4	16.4#
STD ERR OF DP		2.4	2.0	2.5	2.3	1.2	1.1	2.4	0.8	3.2	3.0	1.8	1.3	3.9	3.4	2.2	2.9	3.8	3.7	5.1
P-VALUE	36.6	30.1	33.4	37.3	43.9	43.7	29.7	10.0	41.1	25.0	24.1	33.8	46.4	17.2	32.1	38.2	33.5	32.7	39.0	53.0
STD ERR OF P	1.4	2.6	2.0	3.3	2.4	1.9	1.7	2.2	1.6	3.2	3.1	2.1	2.0	3.7	3.5	2.8	2.9	3.9	3.6	5.5
AGE: Ad																				
DELTA-P	57.3	-2.1	-0.0	1.7	-0.2	14.1#	-13.1#	-39.7#	5.8#	-11.2#	-2.3	-0.1	17.6#	-20.6#	-2.1	0.2	1.1	-2.3	3.4	12.4#
STD ERR OF DP		3.3	2.1	2.6	2.2	0.9	1.0	3.1	0.8	2.0	2.9	1.9	2.0	4.9	4.6	1.9	4.7	6.2	3.7	3.3
P-VALUE	57.3	55.2	57.2	59.0	57.1	71.4	44.2	17.6	63.1	46.1	55.0	57.2	74.9	36.7	55.2	57.5	58.3	55.0	60.7	69.7
STD ERR OF P	1.5	3.9	2.2	3.4	2.2	1.7	1.6	3.1	1.5	2.3	3.3	2.3	2.4	4.9	4.6	2.4	5.1	6.4	3.9	3.3
RESPONSE: 10 AGE: 17	TEXT: $300																			
DELTA-P	33.4	-5.6*	-4.0*	1.3	6.6#	6.6#	-6.5#	-25.3#	4.5#	-10.0#	-11.5#	-2.9	8.9#	-17.9#	-1.5	0.6	-2.4	-3.0	1.7	14.9#
STD ERR OF DP		2.3	2.0	2.5	2.3	1.1	1.1	2.2	0.8	3.2	3.0	1.8	1.3	3.4	3.5	2.2	2.8	3.7	3.3	4.7
STD ERR OF P	1.4	2.5	1.9	3.2	2.5	1.8	1.7	1.9	1.6	3.2	3.0	2.3	1.9	3.1	3.7	2.7	2.8	3.8	3.3	5.2
AGE: Ad																				
DELTA-P	45.3	-2.5	-1.9	0.8	3.2	10.0#	-9.3#	-32.3#	4.8#	-12.3#	-3.3	2.6	15.2#	-18.3#	-2.1	2.7	0.3	-7.3	-0.9	11.0#
STD ERR OF DP		3.4	2.7	2.3	2.1	1.1	1.1	3.0	0.7	2.2	2.9	1.8	1.9	3.9	3.9	1.7	4.5	5.2	4.3	3.3
STD ERR OF P	1.5	4.0	3.3	2.8	2.0	1.8	1.8	3.0	1.5	2.6	3.3	2.3	2.3	3.8	3.9	2.2	5.1	5.5	4.4	3.6
RESPONSE: 11 AGE: 17	TEXT: 300 with wrong sign or no sign																			
DELTA-P	3.2	-0.9	0.8	-0.5	0.7	0.5	-0.4	-1.2	-0.0	-1.6*	-1.0	0.1	0.9	-1.5	-3.0#	1.0	-0.7	-0.8	0.7	1.5
STD ERR OF DP		0.6	0.9	0.7	0.7	0.5	0.5	0.8	0.2	0.7	0.9	0.7	0.5	1.3	0.4	0.6	1.3	0.9	0.8	1.5
STD ERR OF P	0.4	0.6	1.0	0.8	0.8	0.7	0.5	0.7	0.5	0.6	0.8	0.8	0.7	1.3	0.3	0.8	1.5	0.9	0.8	1.6
AGE: Ad																				
DELTA-P	12.0	0.4	1.8	0.9	-3.4#	4.0#	-3.8#	-7.4#	1.0#	1.1	1.0	-2.7*	2.4	-2.3	0.0	-2.5*	0.8	5.0	4.3	1.3
STD ERR OF DP		1.3	1.4	1.4	1.2	1.0	0.9	1.4	0.3	1.5	2.2	1.3	1.6	2.5	2.7	1.1	1.9	3.7	3.0	2.7
STD ERR OF P	0.8	1.3	1.7	1.8	1.2	1.4	1.0	1.4	0.9	1.9	2.4	1.3	1.7	2.3	2.7	1.2	2.1	3.8	3.2	2.9
RESPONSE: 12 AGE: 17	TEXT: Correct process with no answer or wrong answer; e.g., X/5 = 60; 60 = .20X; 60 x 5; X times 1/5 = 60; any decimal of 300																			
DELTA-P	5.4	0.1	0.9	-0.0	-0.8	-1.7#	1.6#	0.9	0.1	1.0	0.5	-0.1	-0.3	-1.9	-1.7	0.5	0.2	-0.3	2.3	-1.8
STD ERR OF DP		1.1	1.2	0.9	1.1	0.6	0.6	1.4	0.2	2.0	1.7	0.8	0.7	1.3	1.4	1.0	1.4	1.7	1.3	1.1
STD ERR OF P	0.6	1.2	1.3	1.1	1.3	0.6	1.0	1.6	0.7	2.2	1.8	0.8	0.9	1.3	1.3	1.2	1.4	1.8	1.6	1.2
AGE: Ad																				
DELTA-P	2.5	1.1	0.5	-0.9	-0.4	-1.0#	0.9#	2.3	-0.2	0.3	-1.3	0.0	0.0	0.6	-0.9	0.0	-1.2	-1.6*	-1.4	3.3*
STD ERR OF DP		0.9	0.5	0.5	0.4	0.4	0.3	1.3	0.2	0.6	0.7	0.7	1.0	1.1	0.8	0.4	0.7	0.7	0.7	1.4
STD ERR OF P	0.3	1.0	0.6	0.6	0.3	0.4	0.5	1.4	0.3	0.8	0.7	0.7	1.1	1.2	0.8	0.6	0.7	0.7	0.7	1.5
RESPONSE: 20 AGE: 17	TEXT: 240; $240																			
DELTA-P	0.7	0.6	0.2	-0.3	-0.3	-0.1	0.1	-0.5*	0.0	0.7	-0.5*	-0.4	0.2	-0.0	-0.1	0.3	-0.3	0.8	-0.6#	-0.2
STD ERR OF DP		0.4	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.8	0.2	0.2	0.2	0.5	0.4	0.3	0.3	0.6	0.2	0.4
STD ERR OF P	0.2	0.5	0.4	0.2	0.3	0.2	0.3	0.2	0.2	0.8	0.2	0.2	0.3	0.6	0.4	0.4	0.3	0.7	0.1	0.4

EXERCISE: RP05

A door-to-door salesman receives 20 percent of the retail value of his sales as commission. What must his total retail sales be if he is to earn a commission of $60?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 20 AGE: Ad TEXT: 240; $240																				
DELTA-P	0.6	-0.0	-0.0	-0.0	0.1	-0.1	0.0	-0.6#	0.1#	-0.0	0.1	0.2	-0.2	-0.6#	0.5	0.1	-0.4	-0.6#	0.9	-0.2
STD ERR OF DP		0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.0	0.3	0.5	0.3	0.2	0.2	0.9	0.2	0.3	0.2	0.7	0.4
STD ERR OF P	0.2	0.4	0.3	0.4	0.3	0.3	0.2	0.0	0.2	0.3	0.5	0.4	0.2	0.0	1.0	0.3	0.2	0.0	0.8	0.4
RESPONSE: 21 AGE: 17 TEXT: 1200; $1200; 12; any decimal of 1200; attempt to multiply 20 x 60 or .20 x 60																				
DELTA-P	24.6	2.6	0.4	-1.0	-1.4	-2.6#	2.5#	1.8	0.2	-3.6	5.0*	3.4	-2.5*	0.7	1.0	0.1	2.5	1.8	0.2	-6.4*
STD ERR OF DP		1.8	1.9	1.6	1.6	1.0	1.0	2.5	0.4	3.1	2.3	1.8	1.1	2.9	2.6	1.2	2.5	4.0	2.6	3.1
STD ERR OF P	1.0	2.1	2.1	2.1	1.8	1.3	1.6	2.5	1.2	3.3	2.5	2.1	1.5	3.1	2.8	1.5	2.6	4.1	2.8	3.4
AGE: Ad																				
DELTA-P	14.8	-0.1	1.3	-1.0	-0.1	-4.0#	3.7#	4.1	-0.9	2.8	0.5	1.9	-5.4#	4.7	-1.2	1.6	-0.3	-3.7	-1.3	-3.6
STD ERR OF DP		2.3	1.6	1.3	1.6	0.9	0.9	2.9	0.5	1.8	2.3	1.5	1.4	3.7	3.5	1.1	2.3	3.4	2.1	1.8
STD ERR OF P	0.9	2.8	1.8	1.3	1.7	1.2	1.4	3.2	0.9	2.2	2.3	1.8	1.7	4.0	3.8	1.5	2.3	3.5	2.1	2.0
RESPONSE: 22 AGE: 17 TEXT: 80; $80																				
DELTA-P	1.4	1.2	0.8	-0.5	-1.0#	0.2	-0.2	3.9#	-0.7#	2.4	0.6	0.2	-1.1#	1.7	2.5	-0.2	-1.0#	-0.8	-0.0	-1.3#
STD ERR OF DP		0.7	0.6	0.4	0.3	0.2	0.2	1.3	0.2	1.6	0.9	0.4	0.3	1.2	1.4	0.4	0.4	0.5	0.5	0.3
STD ERR OF P	0.3	0.9	0.7	0.4	0.3	0.4	0.3	1.5	0.2	1.8	1.0	0.5	0.2	1.3	1.6	0.8	0.2	0.5	0.6	0.1
AGE: Ad																				
DELTA-P	0.8	0.4	-0.1	-0.5	0.3	-0.7#	0.6#	1.2	-0.2	0.1	0.1	-0.1	-0.3	0.6	0.4	-0.1	0.9	-0.8#	0.4	-0.8#
STD ERR OF DP		0.4	0.4	0.3	0.6	0.2	0.2	0.9	0.1	0.3	0.5	0.4	0.3	1.1	0.6	0.3	1.2	0.2	0.7	0.2
STD ERR OF P	0.2	0.4	0.4	0.2	0.8	0.1	0.4	1.0	0.2	0.3	0.5	0.5	0.3	1.1	0.5	0.2	1.4	0.0	0.7	0.0
RESPONSE: 23 AGE: 17 TEXT: Other Unacceptable																				
DELTA-P	17.2	0.0	0.1	2.1	-2.5	0.1	-0.1	17.0#	-3.4#	4.4	3.1	0.1	-2.7*	13.3*	8.4#	-3.5#	-3.1	1.3	-0.7	-4.0
STD ERR OF DP		2.2	1.8	1.8	1.3	0.9	0.9	3.2	0.7	2.9	2.7	1.3	1.1	6.0	2.7	1.4	1.7	2.9	1.9	2.2
STD ERR OF P	1.0	2.6	1.9	2.3	1.3	1.4	1.3	3.5	0.9	3.0	2.8	1.4	1.7	6.3	2.8	1.6	1.6	3.0	2.2	2.1
AGE: Ad																				
DELTA-P	11.1	0.8	-0.7	0.1	-0.0	-2.5#	2.3#	19.9#	-2.8#	1.3	3.2	-0.2	-3.7#	8.9#	0.1	-2.1*	0.8	5.3	-0.1	-4.0*
STD ERR OF DP		2.0	1.5	1.5	1.4	0.9	0.9	4.4	0.6	1.4	2.0	1.2	1.3	3.6	2.5	1.0	2.5	3.4	2.9	1.7
STD ERR OF P	0.9	2.4	1.7	1.9	1.4	1.2	1.4	4.7	0.8	1.9	2.2	1.5	1.3	3.9	2.7	1.0	2.6	3.7	3.2	1.9
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	12.0	1.8	0.9	-1.1	-1.1	-2.4#	2.3#	2.0	-0.4	7.6*	2.2	-0.9	-2.6#	4.1	-4.5*	1.4	3.5	0.9	-3.4*	-2.0
STD ERR OF DP		1.5	1.7	1.4	1.8	0.7	0.8	1.9	0.4	3.5	2.0	1.0	0.7	4.7	2.2	1.4	2.0	3.5	1.5	2.6
STD ERR OF P	0.9	1.7	1.9	1.6	2.1	1.2	1.1	1.9	1.0	4.0	2.3	1.2	0.9	5.0	2.1	1.7	2.2	3.8	1.4	2.6
AGE: Ad																				
DELTA-P	12.3	-1.1	-0.5	1.1	0.2	-6.2#	5.7#	12.8#	-1.9#	6.9#	0.1	-2.4	-7.5#	6.9*	2.8	0.5	-0.2	2.7	-3.3	-6.6#
STD ERR OF DP		1.7	1.5	1.9	1.6	0.9	0.8	3.7	0.6	1.8	1.9	1.4	1.2	3.3	2.9	1.4	2.9	3.1	2.4	1.7
STD ERR OF P	1.0	1.8	1.6	2.4	1.7	0.9	1.6	3.9	1.1	2.2	2.1	1.6	1.0	3.5	3.0	1.8	3.0	3.3	2.3	1.5

RP06
OBJ IV

A state changes its sales tax from 3 percent to 4 percent. How much **ADDITIONAL** sales tax would you now pay on a new car that costs $2,760.00?

ANSWER ______________________

SCORING GUIDE
RP06
C50036-4

00 = No Response

10 = $27.60

11 = 1%; 33 1/3% more; 1/3 more

12 = Correct process with no answer or wrong answer; e.g.,
(2760 x 0.04) - (2760 x 0.03);
110.40 - 82.80; 0.01 x 2760

20 = 110.40; $110.40; attempt to multiply 2760 by 0.04

21 = 82.80; $82.80; attempt to multiply 2760 by 0.03 (can misplace decimal)

22 = 193.20; $193.20; attempt to multiply 2760 by 0.07 (can misplace decimal)

23 = Decimal error of 27.60 except category 12

24 = Other Unacceptable

39 = I Don't Know.

Note: Only Categories 10 and 11 were considered acceptable.

Report #: RP06

NAEP #: C50036-4

Content Area: F. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		Adult
Age:		
Package-Exercise:		03-32
National P-value:		
	RP06	56.28

Timing: (in seconds)

	Stimulus:	13
	Response:	*
RP06	Exercise total:	*

*Time not limited by paced tape.

EXERCISE: RP06

A state changes its sales tax from 3 percent to 4 percent. How much ADDITIONAL sales tax would you now pay on a new car that costs $2,760.00?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: Ad TEXT: No Response.																				
DELTA-P	0.6	0.2	-0.3	-0.6*	0.8	0.2	-0.2	2.9	-0.4	0.4	-0.6*	0.4	-0.6*	2.7	0.9	-0.1	-0.6*	-0.6*	-0.6*	-0.6*
STD ERR OF DP		0.5	0.3	0.3	0.9	0.3	0.3	2.4	0.3	0.4	0.3	0.6	0.3	2.7	1.0	0.4	0.3	0.3	0.3	0.3
STD ERR OF P	0.3	0.4	0.2	0.0	1.2	0.6	0.2	2.7	0.1	0.4	0.0	0.9	0.0	2.9	1.1	0.3	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: Ad TEXT: All Acceptable Responses. (Only categories 10 and 11 were considered to be the acceptable responses.)																				
DELTA-P	56.3	-3.6	-2.7	4.3	1.0	5.8#	-5.4#	-41.3#	6.4#	-9.3#	-5.7*	1.3	15.4#	-20.5#	4.9	0.5	1.6	-10.2*	7.7	8.6#
STD ERR OF DP		2.9	2.7	2.8	2.8	1.3	1.2	3.6	0.8	2.6	2.7	2.3	2.4	3.8	4.2	2.0	4.0	4.7	4.2	2.9
P-VALUE	56.3	52.7	53.6	60.6	57.3	62.1	50.9	15.0	62.7	47.0	50.5	57.6	71.6	35.7	61.2	56.8	57.8	46.1	63.9	64.9
STD ERR OF P	1.7	3.2	3.2	3.6	3.1	2.2	1.9	3.2	1.7	3.3	3.2	2.9	2.4	3.9	4.2	2.7	4.2	4.9	4.7	2.7
RESPONSE: 10 AGE: Ad TEXT: $27.60																				
DELTA-P	55.0	-3.2	-3.0	4.7	0.6	6.0#	-5.6#	-41.2#	6.6#	-10.2#	-4.9	1.4	15.7#	-22.9#	5.8	0.8	2.8	-11.3*	7.7	8.8#
STD ERR OF DP		3.0	2.9	2.9	2.7	1.3	1.3	3.7	0.8	2.7	2.7	2.3	2.3	3.6	4.1	2.1	4.0	4.6	4.0	3.1
STD ERR OF P	1.7	3.2	3.3	3.7	2.9	2.3	2.0	3.2	1.7	3.4	3.2	2.8	2.4	3.6	4.1	2.9	4.2	4.8	4.5	2.9
RESPONSE: 11 AGE: Ad TEXT: 1%; 33 1/3% more; 1/3 more																				
DELTA-P	1.3	-0.4	0.4	-0.4	0.4	-0.3	0.2	-0.1	-0.2	0.9	-0.8*	-0.1	-0.3	2.4	-0.9	-0.3	-1.3#	1.2	-0.0	-0.1
STD ERR OF DP		0.4	0.4	0.4	0.5	0.3	0.3	0.7	0.2	0.5	0.4	0.4	0.4	1.3	0.5	0.3	0.2	1.4	0.7	0.4
STD ERR OF P	0.2	0.4	0.5	0.4	0.6	0.4	0.4	0.7	0.2	0.6	0.3	0.4	0.5	1.4	0.4	0.4	0.0	1.5	0.7	0.5
RESPONSE: 12 AGE: Ad TEXT: Correct process with no answer or wrong answer; e.g., (2760 x 0.04) - (2760 x 0.03); 110.40 - 82.80; 0.01 x 2760																				
DELTA-P	10.3	-2.4	1.6	-1.5	2.1	-0.1	0.0	-2.4	0.3	-0.8	-2.5	3.2*	-0.8	-0.2	-3.0	-0.0	0.4	-1.3	-2.5	4.5
STD ERR OF DP		1.3	1.3	1.4	1.5	1.0	0.9	2.2	0.3	1.2	1.5	1.3	1.3	2.2	1.9	1.0	2.3	2.5	1.5	2.6
STD ERR OF P	0.8	1.3	1.5	1.8	1.7	1.4	1.1	2.3	0.9	1.5	1.4	1.7	1.5	2.2	1.9	1.4	2.5	2.7	1.5	2.8
RESPONSE: 20 AGE: Ad TEXT: 110.40; $110.40; attempt to multiply 2760 x .04																				
DELTA-P	6.3	-0.1	0.0	0.2	-0.2	-1.9#	1.8#	4.0	-0.6	1.4	1.7	-1.1	-1.8	-1.3	-2.7	-0.0	1.7	3.0	0.7	-1.4
STD ERR OF DP		1.1	1.5	1.0	1.2	0.6	0.5	2.5	0.3	1.1	1.7	0.9	1.1	1.6	1.4	0.7	1.5	2.9	2.3	1.8
STD ERR OF P	0.7	1.1	1.9	1.1	1.3	0.8	1.0	2.8	0.7	1.4	1.9	1.1	1.1	1.6	1.4	0.9	1.6	3.0	2.6	2.0
RESPONSE: 21 AGE: Ad TEXT: 82.80; $82.80; attempt to multiply 2760 by 0.03 (can misplace decimal)																				
DELTA-P	0.5	-0.5*	-0.4	0.9	-0.2	0.1	-0.1	0.3	-0.1	-0.5*	-0.0	0.9	-0.5	0.0	-0.5*	0.4	-0.2	0.5	-0.5*	-0.5*
STD ERR OF DP		0.3	0.3	0.6	0.3	0.3	0.3	0.6	0.1	0.3	0.4	0.6	0.3	0.6	0.3	0.4	0.4	0.7	0.3	0.3
STD ERR OF P	0.3	0.0	0.2	0.8	0.2	0.4	0.4	0.6	0.3	0.0	0.4	0.8	0.1	0.5	0.0	0.6	0.3	0.7	0.0	0.0
RESPONSE: 22 AGE: Ad TEXT: 193.20; $193.20; attempt to multiply 2760 by 0.07 (can misplace decimal)																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.0	-0.0	0.0	-0.0	-0.0	0.1	-0.0	-0.0	0.5	-0.0	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
RESPONSE: 23 AGE: Ad TEXT: Decimal error of 27.60 except category 12																				
DELTA-P	3.5	0.1	1.7	-1.8#	0.0	1.0*	-0.9	-2.2*	0.0	0.1	-0.5	-0.1	0.0	-3.0#	-2.0#	-0.6	-0.2	1.6	2.8	1.8
STD ERR OF DP		0.9	0.9	0.5	0.8	0.5	0.5	1.0	0.2	0.9	1.2	0.8	1.0	0.5	0.7	0.6	1.3	1.9	2.0	1.3
STD ERR OF P	0.5	1.0	1.2	0.5	0.9	0.7	0.6	0.9	0.6	1.0	1.2	0.9	1.2	0.3	0.6	0.6	1.3	2.0	2.2	1.5
RESPONSE: 24 AGE: Ad TEXT: Other Unacceptable																				
DELTA-P	9.5	4.7#	-0.5	-1.7	-1.4	0.8	-0.7	12.9#	-1.7#	2.6	1.7	0.1	-4.0#	8.3#	4.6	-1.0	-2.7	4.1	-4.6#	-1.9
STD ERR OF DP		1.8	1.5	1.3	1.6	0.7	0.7	2.8	0.4	1.5	1.7	1.2	1.6	3.3	3.7	0.9	1.9	4.0	1.6	2.0
STD ERR OF P	0.9	2.1	1.8	1.4	1.9	1.3	1.0	3.0	1.0	1.7	1.9	1.7	1.7	3.6	4.0	0.9	1.9	4.5	1.7	2.2
RESPONSE: 39 AGE: Ad TEXT: I Don't Know.																				
DELTA-P	12.8	1.6	0.3	0.3	-2.1	-5.8#	5.4#	25.9#	-4.0#	6.2#	5.9*	-4.7#	-7.7#	14.0#	-2.5	0.9	0.2	3.0	-2.8	-10.5#
STD ERR OF DP		2.3	1.8	2.0	1.8	0.9	0.9	3.9	0.7	2.3	2.5	1.3	1.3	3.8	2.9	1.4	3.0	4.0	2.4	1.3
SYD ERR OF P	1.1	2.5	2.0	2.5	2.0	1.1	1.7	4.2	0.9	3.0	2.8	1.0	1.1	4.1	3.0	1.9	3.1	4.1	2.7	1.1

RP07
OBJ V

A housewife will pay the lowest price per ounce for rice if she buys it at the store which offers

○ 12 ounces for 40 cents.

○ 14 ounces for 45 cents.

● 1 pound, 12 ounces for 85 cents.

○ 2 pounds for 99 cents.

○ I don't know.

Report #: RP07

NAEP #: R14003-234

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		05-32	07-05	02-06
National P-value:	RP07	24.46	33.73	38.53

Timing: (in seconds)				
	Stimulus:	18	17	20
	Response:	81	79	*
	I don't know:	5	5	*
	Pause:	6	5	*
RP07	Exercise total:	110	106	*

*Time not limited by paced tape.

EXERCISE: RP07

A housewife will pay the lowest price per ounce for rice if she buys it at the store which offers

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	2.4	-2.2*	4.4	-1.9	-0.4	1.0*	-1.0*	-0.8	-0.2	-0.4	0.2	-0.8#	-1.0	-2.4*	-1.7	-2.4*	-2.0	2.0	4.2	-2.2*
STD ERR OF DP		1.0	2.5	1.0	1.7	0.4	0.4	1.1	0.1	1.3	1.0	0.3	0.8	1.0	1.2	1.0	1.0	3.3	4.3	1.0
STD ERR OF P	1.0	0.2	3.4	0.4	1.9	1.4	0.7	0.9	0.9	1.4	1.7	0.8	0.7	0.0	0.7	0.0	0.4	3.7	5.2	0.9
AGE: 17																				
DELTA-P	0.1	0.0	-0.1	-0.0	0.1	-0.1	0.1	0.2	-0.1	-0.1	-0.1	-0.0	-0.0	0.2	-0.1	-0.0	-0.1	0.4	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.4	0.1	0.1
STD ERR OF P	0.1	0.1	0.0	0.1	0.2	0.0	0.1	0.2	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.1	0.0	0.4	0.0	0.0
AGE: Ad																				
DELTA-P	0.2	0.8	-0.2	-0.2	-0.2	0.2	-0.2	-0.2	0.0	-0.2	-0.2	0.5	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	1.7	-0.2
STD ERR OF DP		0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	1.6	0.2
STD ERR OF P	0.2	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
RESPONSE: 01 AGE: 13 TEXT: 12 ounces for 40 cents.																				
DELTA-P	12.5	4.3*	-3.1#	-1.2	0.9	-1.1	1.1	15.0#	-2.2#	4.3	1.1	0.8	-2.5#	9.9#	-3.0*	0.7	0.3	1.7	-2.5	-3.3
STD ERR OF DP		1.9	1.1	1.1	1.5	0.8	0.8	2.9	0.5	3.4	2.5	1.2	0.9	2.5	1.6	1.0	1.9	3.0	1.9	1.9
STD ERR OF P	0.8	2.2	1.1	1.3	1.8	1.1	1.2	3.1	0.7	3.4	2.7	1.3	1.1	2.7	1.5	1.2	2.1	3.4	2.0	1.9
AGE: 17																				
DELTA-P	9.9	-0.3	-0.7	1.0	-0.1	-1.6*	1.3*	9.2#	-1.4#	0.6	2.4	-0.2	-1.7#	3.8	-1.0	-1.1	-0.3	-2.4	1.5	1.7
STD ERR OF DP		0.9	1.0	1.0	1.0	0.7	0.7	2.0	0.4	2.2	1.9	0.9	0.6	2.5	2.0	0.8	1.3	1.9	1.5	2.0
STD ERR OF P	0.6	1.0	1.2	1.2	1.1	0.7	1.0	2.2	0.6	2.2	2.0	1.0	0.8	2.6	2.1	0.9	1.3	2.0	1.6	2.1
AGE: Ad																				
DELTA-P	4.4	0.2	-1.0	-0.8	1.9	-0.5	0.5	2.7	-0.3	-0.5	-0.6	1.2	-2.1#	1.7	-1.0	-0.2	0.1	-2.9#	0.5	1.5
STD ERR OF DP		1.0	0.7	0.7	1.3	0.5	0.5	1.8	0.2	0.9	1.1	1.0	0.8	1.8	1.4	0.5	1.3	1.0	1.4	1.8
STD ERR OF P	0.5	1.2	0.8	0.6	1.6	0.8	0.7	1.9	0.6	1.0	1.1	1.2	0.7	1.9	1.4	0.8	1.4	0.9	1.4	2.0
RESPONSE: 02 AGE: 13 TEXT: 14 ounces for 45 cents.																				
DELTA-P	9.0	-0.5	0.4	0.2	-0.3	-0.5	0.5	0.8	0.1	-3.0	-0.2	-0.5	1.2	1.7	-1.4	-0.3	-1.2	2.5	0.8	-0.8
STD ERR OF DP		1.3	1.4	1.0	1.1	0.7	0.7	1.3	0.2	1.8	1.9	1.0	0.8	2.0	1.9	1.0	1.2	2.2	1.8	2.4
STD ERR OF P	0.7	1.4	1.7	1.2	1.1	1.0	1.0	1.4	0.8	1.8	2.0	1.2	1.1	2.0	2.0	1.0	1.2	2.4	2.0	2.6
AGE: 17																				
DELTA-P	9.0	-0.3	-1.5	-0.1	1.8	-0.0	0.0	1.8	-0.7	0.2	0.5	0.1	0.1	1.0	-1.0	-0.7	0.4	-0.1	2.2	-1.1
STD ERR OF DP		1.2	1.0	1.1	1.6	0.7	0.6	2.0	0.3	1.8	1.8	0.9	0.6	2.1	1.6	0.9	1.5	2.4	1.9	2.2
STD ERR OF P	0.7	1.2	1.0	1.3	2.0	1.0	1.0	2.0	0.8	1.9	2.0	1.2	0.9	2.2	1.6	1.0	1.4	2.5	2.2	2.5
AGE: Ad																				
DELTA-P	5.3	-0.4	-1.0	0.8	0.4	0.2	-0.2	2.4	-0.4	0.7	-0.6	1.3	-1.4	2.8	-1.3	-1.1	-1.5	1.1	2.5	0.4
STD ERR OF DP		1.4	0.8	1.0	1.0	0.5	0.5	2.4	0.3	1.1	1.2	1.0	0.9	3.1	1.3	0.7	1.5	2.2	1.8	1.9
STD ERR OF P	0.6	1.6	0.9	1.1	1.2	0.8	0.7	2.7	0.6	1.4	1.2	1.3	0.8	3.3	1.2	0.7	1.6	2.4	1.6	2.1
RESPONSE: 03* AGE: 13 TEXT: 1 pound, 12 ounces for 85 cents.																				
DELTA-P	24.5	-5.2*	-2.7	3.9*	2.8	0.9	-0.9	-8.5#	2.0#	-4.7	-3.4	2.4	1.6	-5.3	5.2	-1.1	0.5	0.8	-3.2	4.5
STD ERR OF DP		2.3	1.6	1.8	2.0	1.3	1.3	1.8	0.4	3.6	2.6	1.5	1.1	3.2	4.7	1.6	3.0	2.5	2.7	2.5
P-VALUE	24.5	19.3	21.7	28.3	27.2	25.3	23.6	16.0	26.5	19.8	21.1	26.9	26.0	19.2	29.7	23.3	25.0	25.3	21.3	28.9
STD ERR OF P	1.2	2.7	1.6	2.3	2.3	1.3	1.7	1.7	1.3	3.6	2.8	2.0	1.7	3.1	5.2	1.9	3.4	2.4	3.0	2.4
AGE: 17																				
DELTA-P	33.7	-0.6	-0.2	2.4	-1.8	5.8#	-5.0#	-15.1#	3.0#	-7.9#	-9.1#	1.2	3.7#	-8.3*	-6.5*	2.6	2.4	-1.9	-4.5	9.9#
STD ERR OF DP		2.6	2.3	1.9	1.9	1.2	1.0	1.9	0.5	2.6	2.8	1.5	1.2	3.4	2.8	1.8	2.2	3.3	2.4	3.6
P-VALUE	33.7	33.1	33.6	36.1	31.9	39.5	28.9	18.6	36.7	25.8	24.7	34.9	37.4	25.4	27.2	36.3	36.1	31.9	29.3	43.6
STD ERR OF P	1.2	2.9	2.7	2.2	2.0	1.5	1.7	2.1	1.3	2.8	2.6	2.0	1.9	3.5	2.9	2.2	2.3	3.3	2.6	3.9

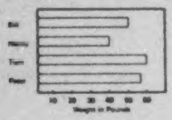
EXERCISE: RP07

A housewife will pay the lowest price per ounce for rice if she buys it at the store which offers

	NATION	REGION: SOUTHEAST	REGION: WEST	REGION: CENTRAL	REGION: NORTHEAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	SIZE-AND-TYPE OF COMMUNITY: EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY: SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY: MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY: MAIN BIG CITY	SIZE-AND-TYPE OF COMMUNITY: URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY: HIGH METRO
RESPONSE: 03* AGE: AD TEXT: 1 pound, 12 ounces for 85 cents.																				
DELTA-P	38.5	0.7	2.7	-1.4	-1.7	6.9#	-6.4#	-20.6#	3.4#	-7.7#	-5.2	0.5	13.5#	-13.4#	0.7	0.9	4.6	3.6	-2.4	2.1
STD ERR OF DP		3.0	2.5	2.4	2.8	1.3	1.3	3.2	0.7	2.2	2.7	2.0	2.0	2.9	4.4	1.9	4.4	4.0	3.6	3.7
P-VALUE	38.5	39.2	41.2	37.1	36.8	45.4	32.1	17.9	41.9	30.9	33.3	39.0	52.0	25.1	39.2	39.4	43.1	42.2	36.1	40.6
STD ERR OF P	1.5	3.4	2.9	2.8	3.2	2.1	1.8	3.4	1.7	2.6	3.1	2.5	2.4	3.0	4.5	2.5	4.6	3.8	4.0	4.0
RESPONSE: 04 AGE: 13 TEXT: 2 pounds for 99 cents.																				
DELTA-P	45.5	4.1	0.6	-2.7	-1.0	1.5	-1.5	-6.5*	0.9	5.6	-1.5	-1.0	1.6	-3.7	2.7	4.5#	1.1	-8.9#	-4.1	2.4
STD ERR OF DP		2.6	2.1	1.6	2.1	1.4	1.4	3.0	0.5	4.4	3.6	1.6	1.2	2.6	4.3	1.7	3.8	3.5	3.2	2.7
STD ERR OF P	1.2	3.2	2.4	1.6	2.4	1.9	1.8	3.0	1.4	4.4	3.8	2.0	1.7	2.6	4.6	2.0	4.3	3.6	3.5	2.5
AGE: 17																				
DELTA-P	45.8	-0.6	2.2	-2.7	1.2	-4.3#	3.7#	2.3	-0.6	7.4*	6.9*	-1.4	-1.9	3.4	9.3#	-0.1	-4.8*	5.7	-0.2	-9.8#
STD ERR OF DP		2.9	2.3	1.9	2.2	1.3	1.1	2.9	0.5	3.3	3.2	1.6	1.3	3.4	3.7	2.0	2.2	3.3	3.6	3.6
STD ERR OF P	1.3	3.4	2.7	2.0	2.6	1.6	1.9	3.3	1.8	3.4	3.1	2.1	2.0	3.7	3.8	2.3	2.2	3.5	4.1	3.9
AGE: AD																				
DELTA-P	47.3	-0.2	-0.8	1.0	-0.2	-6.8#	6.3#	8.3*	-1.4*	5.2*	7.8#	-2.2	-7.9#	6.7	0.9	2.3	-4.7	-4.8	-3.1	-2.1
STD ERR OF DP		2.2	2.4	2.5	2.3	1.5	1.5	3.9	0.6	2.4	3.0	2.0	2.0	3.9	4.7	1.9	4.3	4.5	3.9	4.2
STD ERR OF P	1.4	2.3	2.8	3.2	2.5	2.3	1.7	4.1	1.5	2.7	3.4	2.5	2.2	3.7	4.9	2.5	4.7	4.5	4.0	4.6
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	6.3	-0.5	0.4	1.7*	-2.1*	-1.7#	1.7#	0.0	-0.6	-1.9	3.8	-0.9	-1.0	-0.3	-1.1	-1.4*	1.3	2.0	1.3	-0.5
STD ERR OF DP		0.9	1.1	0.7	1.0	0.6	0.6	1.4	0.3	1.6	2.0	0.7	0.7	1.5	1.4	0.7	1.7	2.0	1.6	1.7
STD ERR OF P	0.5	1.0	1.3	0.8	1.1	0.7	0.9	1.4	0.6	1.7	2.3	0.8	0.8	1.5	1.5	0.8	1.9	2.0	1.8	1.7
AGE: 17																				
DELTA-P	2.5	1.0*	0.2	-0.5	-1.2*	0.2	-0.2	1.7	-0.2	-0.2	-0.6	0.4	-0.2	-0.1	-0.6	-0.7	2.5	-1.7#	1.1	-0.5
STD ERR OF DP		0.8	0.7	0.4	0.5	0.3	0.3	0.9	0.2	1.0	0.6	0.6	0.4	0.8	0.7	0.4	1.3	0.6	0.8	0.9
STD ERR OF P	0.3	0.9	0.9	0.4	0.6	0.5	0.5	1.0	0.4	1.0	0.5	0.8	0.5	0.7	0.8	0.5	1.5	0.5	0.8	0.9
AGE: AD																				
DELTA-P	4.2	-1.2	0.3	0.7	-0.1	-0.1	0.1	7.5#	-1.3#	2.4*	-1.1	-1.2	-1.9#	2.4	0.9	-1.6*	1.7	3.2	0.9	-1.6
STD ERR OF DP		0.8	0.9	1.1	0.8	0.5	0.4	2.4	0.3	1.0	1.0	0.7	0.7	1.7	1.3	0.7	1.4	2.4	1.9	1.1
STD ERR OF P	0.6	0.8	1.0	1.5	0.8	0.8	0.6	2.6	0.5	1.4	1.2	0.7	0.7	1.8	1.3	0.7	1.8	2.7	2.1	1.1

RQ01
OBJ I

This graph shows the weight in pounds of four boys.



A. Which boy weighs the most?

- ○ Bill
- ○ Henry
- ● Tom
- ○ Peter

○ I don't know.

B. Which boy weighs closest to 50 pounds?

- ● Bill
- ○ Henry
- ○ Tom
- ○ Peter

○ I don't know.

```
Report #:          RQ01

NAEP #:            J30001-1

Content Area:      Q. METHODS OF REPRESENTING DATA

Objective:         I. Recall and/or Recognition of Definitions,
                      Facts, and Symbols.

Exercise Type:          Multiple part multiple choice using graph
Scoring Type:           Machine
Administration Mode:    Group

Age:                                 9
Package-Exercise:                  01-19
National P-value:
                        RQ01A      88.55
                        RQ01B      60.60
                        RQ01C      84.29

Timing: (in seconds)
                  Introduction:     5
                      Stimulus:     7
                      Response:    11
                  I don't know:     5
                         Pause:     4
   RQ01A            Part total:    27
                      Stimulus:     8
                      Response:    11
                  I don't know:     1
                         Pause:     3
                     Turn page:    (6)
   RQ01B            Part total:    23**
                      Stimulus:     6
                      Response:    11
                  I don't know:     1
                         Pause:     6
   RQ01C            Part total:    24
   RQ01         Exercise total:    79
**Time to turn page is not included in total times.
```

RQ01
OBJ I

(Continued)

C. Which boy weighs the least?

- ○ Bill
- ● Henry
- ○ Tom
- ○ Peter

○ I don't know.

EXERCISE: RQ01

Part A. According to the graph given that shows the weight of 4 boys in pounds, which boy weighs the most?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.1	-0.3	1.7	-0.7	-0.7	0.4*	-0.4*	1.0	-0.6	0.0	0.3	0.2	-0.5	9.7	-0.3	-0.5	-0.8	-0.7	-1.1*	-1.1*
STD ERR OF DP		0.6	1.5	0.6	0.6	0.2	0.2	1.2	0.3	0.7	1.1	0.7	0.3	6.8	0.7	0.6	0.6	0.6	0.5	0.5
STD ERR OF P	0.5	0.4	1.9	0.3	0.3	0.6	0.4	1.1	0.3	1.1	1.0	0.6	0.4	7.3	0.6	0.3	0.3	0.4	0.0	0.0
RESPONSE: 01 AGE: 9	TEXT: Bill																			
DELTA-P	0.9	0.5	0.6	-0.5#	-0.5#	0.2	-0.2	2.0#	-0.4#	0.5	2.2	0.2	-0.4	1.6	0.3	0.2	-0.5	0.2	-0.4	-0.6*
STD ERR OF DP		0.4	0.4	0.2	0.2	0.2	0.2	0.7	0.1	1.2	1.5	0.4	0.2	0.8	0.6	0.2	0.3	0.5	0.3	0.3
STD ERR OF P	0.2	0.5	0.6	0.2	0.2	0.3	0.2	0.8	0.2	1.3	1.6	0.5	0.2	0.9	0.7	0.3	0.3	0.6	0.4	0.3
RESPONSE: 02 AGE: 9	TEXT: Henry																			
DELTA-P	1.5	0.5	0.6	-0.8*	-0.3	0.3	-0.3	2.4*	-0.5*	0.2	-0.5	1.2	-0.2	2.9	1.3	-0.1	0.4	-0.7	-1.3#	-0.6
STD ERR OF DP		0.7	0.6	0.4	0.5	0.3	0.3	1.2	0.2	0.9	1.1	0.6	0.4	1.9	0.9	0.4	0.9	0.6	0.4	0.5
STD ERR OF P	0.3	0.8	0.7	0.3	0.5	0.5	0.3	1.3	0.3	1.0	1.1	0.8	0.5	2.0	1.0	0.4	1.1	0.6	0.2	0.5
RESPONSE: 03* AGE: 9	TEXT: Tom																			
DELTA-P	88.6	-3.8#	-2.5	3.5#	2.2	0.1	-0.1	-12.5#	3.2#	-4.0	-3.8	-0.6	3.8#	-20.1#	1.2	-0.1	0.3	-0.3	4.0*	5.7#
STD ERR OF DP		1.5	1.8	1.1	1.1	0.7	0.7	2.7	0.6	3.1	4.0	1.6	1.2	6.4	2.6	1.1	2.3	2.1	1.8	1.1
P-VALUE	88.6	84.7	86.0	92.1	90.8	88.6	88.5	76.1	91.8	84.5	84.8	88.0	92.3	68.5	89.8	88.5	88.9	88.2	92.6	94.3
STD ERR OF P	0.8	1.7	2.2	1.2	1.1	1.1	1.1	3.1	0.7	3.2	4.2	1.9	1.2	6.8	2.7	1.2	2.5	2.4	1.7	0.8
RESPONSE: 04 AGE: 9	TEXT: Peter																			
DELTA-P	6.3	3.7#	-1.7*	-0.7	-0.9	-0.8	0.8	7.1#	-1.5#	4.4	-1.4	-0.2	-1.6	6.7#	-2.1	0.8	0.5	0.3	-1.3	-3.5#
STD ERR OF DP		0.9	0.8	0.8	0.7	0.5	0.5	1.7	0.5	2.6	1.9	1.0	0.9	2.4	1.4	0.8	1.8	1.7	1.5	0.9
STD ERR OF P	0.5	1.1	0.9	0.9	0.8	0.6	0.7	1.8	0.5	2.8	2.0	1.2	1.0	2.6	1.3	0.9	2.0	1.7	1.5	0.9
RESPONSE: 09 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	-1.7	-0.7	1.2	-0.8*	0.2	-0.2	0.2	-0.0	-0.3	-1.1	3.1	-0.7	-1.1#	-0.8	-0.3	-0.3	0.0	1.3	0.1	0.0
STD ERR OF DP		0.5	0.7	0.4	0.6	0.3	0.3	0.7	0.1	0.7	2.5	0.5	0.4	0.8	0.9	0.4	0.6	1.3	0.6	0.8
STD ERR OF P	0.3	0.5	0.9	0.4	0.7	0.4	0.4	0.7	0.3	0.6	2.7	0.5	0.3	0.7	1.0	0.5	0.6	1.4	0.7	0.8

EXERCISE: RQ01

Part B. According to the graph given that shows the weight of 4 boys in pounds, which boy weighs closest to 50 pounds?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	2.0	0.2	2.1	-1.2	-1.0	-0.0	0.0	1.2	-0.8*	-0.5	-1.1	0.1	-0.6	10.1	0.1	0.1	-1.9#	-1.4*	-1.1	-1.1
STD ERR OF DP		0.8	1.5	0.7	0.6	0.3	0.3	1.4	0.4	0.9	0.9	0.9	0.4	6.9	1.3	0.7	0.6	0.7	0.8	0.8
STD ERR OF P	0.6	0.8	2.0	0.5	0.4	0.7	0.6	1.3	0.3	1.2	0.7	0.8	0.6	7.4	1.3	0.7	0.1	0.4	0.6	0.7
RESPONSE: 01* AGE: 9	TEXT: Bill																			
DELTA-P	60.6	-11.0#	-0.8	5.3*	5.0*	2.1*	-2.1*	-29.4#	6.2#	-11.6#	-6.7	2.4	7.1#	-30.7#	-5.8	-0.9	3.5	-1.7	5.5*	13.7#
STD ERR OF DP		2.9	2.2	2.3	2.3	0.9	0.9	2.1	0.7	4.3	4.5	1.8	1.9	3.7	5.2	1.8	3.8	3.5	2.6	2.4
P-VALUE	60.6	49.6	59.8	65.9	65.6	62.7	58.5	31.2	66.8	49.0	53.9	63.0	67.7	30.0	54.8	59.8	64.1	58.9	66.1	74.3
STD ERR OF P	1.4	3.5	2.3	2.7	2.7	1.7	1.8	2.2	1.5	4.6	4.8	2.2	2.1	3.7	5.4	2.2	4.3	3.8	2.8	2.4
RESPONSE: 02 AGE: 9	TEXT: Henry																			
DELTA-P	8.1	3.0*	-0.9	-0.9	-0.8	0.4	-0.4	6.7#	-1.5#	-0.7	4.2	-0.1	-0.4	3.6	5.8*	-0.7	-1.8	2.3	1.0	-4.9#
STD ERR OF DP		1.3	1.0	1.1	1.0	0.6	0.6	1.9	0.5	2.1	3.9	1.2	1.1	2.6	2.5	1.0	1.5	1.5	2.2	1.1
STD ERR OF P	0.6	1.5	1.2	1.3	1.2	0.9	0.9	2.2	0.7	2.1	4.1	1.4	1.2	2.7	2.6	1.1	1.6	1.5	2.5	1.0
RESPONSE: 03 AGE: 9	TEXT: Tom																			
DELTA-P	5.7	3.3#	-1.1	-0.2	-1.6*	-0.1	0.1	6.5#	-1.3#	2.0	4.1	-0.9	-1.5	3.9	2.1	0.6	-1.0	0.9	-0.4	-4.0#
STD ERR OF DP		0.9	0.8	0.8	0.8	0.5	0.5	1.6	0.3	2.6	2.9	0.9	0.9	2.0	1.7	0.6	1.3	1.4	1.1	0.8
STD ERR OF P	0.5	1.0	0.9	1.0	0.9	0.7	0.7	1.7	0.6	2.7	2.9	1.0	0.9	2.1	1.8	0.8	1.3	1.5	1.1	0.8

EXERCISE: RQ01

Part B. According to the graph given that shows the weight of 4 boys in pounds, which boy weighs closest to 50 pounds?

RESPONSE: 04 AGE: 9 TEXT: Peter

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	20.5	3.7	-0.3	-1.5	-1.5	-2.4**	2.4**	13.8**	-2.4**	11.1**	-2.1	-0.7	-2.5*	9.4**	-2.3	0.8	2.3	-0.5	-3.8*	-3.5
STD ERR OF DP		2.5	1.4	1.7	1.8	0.9	0.9	2.5	0.6	4.3	3.3	1.4	1.1	3.6	3.3	1.4	3.8	3.0	1.9	2.6
STD ERR OF P	1.1	3.1	1.3	1.9	2.1	1.2	1.6	2.9	1.1	4.4	3.2	1.7	1.5	3.7	3.3	1.8	4.4	3.3	1.9	2.8

RESPONSE: 09 AGE: 9 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.1	0.8	1.1	-1.5*	-0.2	0.0	-0.0	1.2	-0.3	-0.2	1.5	-0.8	-2.1**	3.6	0.2	0.1	-1.2	0.4	-1.1	-0.1
STD ERR OF DP		0.8	0.8	0.6	0.7	0.3	0.3	1.1	0.2	1.4	2.3	0.6	0.4	2.1	1.4	0.6	0.6	1.0	0.7	0.9
STD ERR OF P	0.4	0.9	0.9	0.7	0.8	0.5	0.5	1.2	0.5	1.4	2.4	0.7	0.4	2.2	1.5	0.8	0.5	1.1	0.7	0.9

EXERCISE: RQ01

Part C. According to the graph given that shows the weight of 4 boys in pounds, which boy weighs the least?

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.9	-0.7	1.9	-0.5	-0.8	0.2	-0.2	0.4	-0.5	0.2	-0.9	-0.0	-0.2	9.1	-0.7	-0.7	-0.8	-0.7	-0.7	-0.6
STD ERR OF DP		0.5	1.5	0.5	0.5	0.1	0.1	1.2	0.3	0.6	0.5	0.7	0.2	6.8	0.6	0.5	0.5	0.6	0.6	0.6
STD ERR OF P	0.5	0.2	2.0	0.3	0.1	0.6	0.4	1.0	0.2	1.1	0.0	0.5	0.4	7.3	0.3	0.2	0.1	0.3	0.2	0.4

RESPONSE: 01 AGE: 9 TEXT: Bill

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	6.0	4.1**	-1.0	-1.0	-1.6	-1.3*	1.3*	11.5**	-1.8**	2.1	1.1	0.1	-1.3	7.8**	2.4	-1.0	0.9	0.3	-0.6	-3.9**
STD ERR OF DP		1.4	1.0	1.0	1.0	0.5	0.5	1.7	0.4	2.5	2.4	1.0	0.8	2.2	2.0	0.7	1.8	1.4	1.7	0.9
STD ERR OF P	0.6	1.7	1.2	1.1	1.0	0.7	0.9	1.9	0.6	2.6	2.3	1.2	1.0	2.3	2.2	0.9	2.0	1.3	1.8	0.8

RESPONSE: 02* AGE: 9 TEXT: Henry

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	84.3	-7.8**	-2.0	3.8**	4.9**	1.1	-1.1	-26.2**	5.7**	-5.3	-2.7	0.2	6.2**	-26.4**	-6.2	0.6	3.0	2.3	1.6	9.1**
STD ERR OF DP		2.1	1.7	1.2	1.5	0.8	0.7	2.8	0.7	3.6	3.8	1.7	1.4	5.9	3.6	1.3	3.0	2.1	2.7	1.5
P-VALUE	84.3	76.5	82.3	88.0	89.2	85.4	83.2	58.1	90.0	79.0	81.6	84.5	90.5	57.9	78.1	84.9	87.3	86.6	85.9	93.4
STD ERR OF P	0.9	2.4	2.0	1.1	1.8	1.1	1.3	3.0	0.8	3.8	3.9	1.9	1.6	6.1	3.8	1.4	3.3	2.0	2.7	1.4

RESPONSE: 03 AGE: 9 TEXT: Tom

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.2	1.0	0.3	-0.3	-0.9	0.1	-0.1	5.8**	-1.5**	3.7	0.3	-0.1	-2.1**	4.4**	1.1	1.4*	-2.0**	-0.2	-1.3	-2.6**
STD ERR OF DP		0.7	0.7	0.7	0.6	0.3	0.3	1.5	0.3	2.4	1.7	0.7	0.4	1.7	1.4	0.7	0.6	1.0	0.9	0.6
STD ERR OF P	0.4	0.8	0.9	0.9	0.6	0.5	0.5	1.6	0.3	2.4	1.8	0.8	0.4	1.8	1.5	0.9	0.6	1.0	0.9	0.4

RESPONSE: 04 AGE: 9 TEXT: Peter

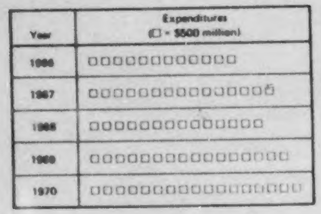
	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.2	3.1**	0.3	-1.8**	-1.2*	-0.0	0.0	7.4**	-1.5**	0.8	2.9	0.2	-0.8	3.0	3.2*	-0.6	0.4	-0.9	0.1	-1.9**
STD ERR OF DP		0.9	0.8	0.5	0.6	0.4	0.4	1.4	0.3	1.4	2.1	0.9	0.6	2.1	1.3	0.5	1.1	0.7	1.1	0.7
STD ERR OF P	0.4	1.0	1.1	0.4	0.6	0.5	0.7	1.6	0.3	1.4	2.3	1.0	0.7	2.3	1.4	0.5	1.2	0.8	1.2	0.7

RESPONSE: 09 AGE: 9 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.5	0.2	0.5	-0.1	-0.5	-0.1	0.1	1.1	-0.4	-1.4	-0.7	-0.3	-1.9**	2.2	0.2	0.2	-1.5**	-0.9	0.8	-0.1
STD ERR OF DP		0.6	0.5	0.6	0.5	0.3	0.3	0.9	0.2	0.8	1.1	0.6	0.4	1.4	1.3	0.5	0.5	0.6	0.9	0.9
STD ERR OF P	0.3	0.7	0.6	0.7	0.5	0.4	0.5	0.9	0.3	0.7	1.1	0.7	0.4	1.4	1.3	0.7	0.4	0.7	1.0	0.8

RQ02
OBJ III

Federal Grants for Education 1966 1970



According to the chart, for which year did federal grants for education decrease from the prior year?

○ 1966
○ 1967
● 1968
○ 1969
○ 1970

○ I don't know.

RQ02
OBJ III

Report #: RQ02

NAEP #: 330013-34

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		04-08	03-31
National P-value:			
	RQ02	76.51	77.91
Timing: (in seconds)			
	Stimulus:	16	19
	Response:	16	*
	I don't know:	5	*
	Pause:	6	*
RQ02	Exercise total:	43	*

*Time not limited by paced tape.

EXERCISE: RQ02

According to the chart, for which year did federal grants for education decrease from the prior year?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	0.4	-0.1	-0.1	-0.2	0.4	0.1	-0.1	-0.3	0.1	-0.4*	-0.4*	-0.0	-0.2	1.3	-0.4*	-0.3	0.0	-0.4*	-0.4*	0.7
STD ERR OF DP		0.2	0.2	0.2	0.4	0.1	0.1	0.2	0.0	0.2	0.2	0.2	0.2	0.7	0.2	0.2	0.3	0.2	0.2	1.1
STD ERR OF P	0.2	0.2	0.2	0.2	0.5	0.2	0.2	0.1	0.2	0.0	0.0	0.2	0.1	0.8	0.0	0.1	0.3	0.0	0.0	1.2
AGE: Ad																				
DELTA-P	0.4	-0.4	-0.2	-0.4	1.0	0.2	-0.2	2.8	-0.4	-0.2	-0.1	0.6	-0.4	3.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
STD ERR OF DP		0.3	0.3	0.3	0.9	0.3	0.3	2.4	0.3	0.3	0.4	0.6	0.3	2.7	0.3	0.3	0.3	0.3	0.3	0.3
STD ERR OF P	0.3	0.0	0.1	0.0	1.2	0.6	0.1	2.7	0.0	0.1	0.3	0.9	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
RESPONSE: 01 AGE: 17	TEXT: 1966																			
DELTA-P	15.7	7.9#	-1.7	1.7	-6.3#	-2.9#	2.9#	21.0#	-3.8#	12.3#	10.6#	1.2	-6.3#	14.8#	7.8*	0.1	-1.5	-0.4	-2.8	-10.9#
STD ERR OF DP		2.4	1.7	1.9	1.4	0.9	1.0	2.4	0.7	3.8	2.5	1.2	1.0	3.2	3.7	1.6	2.1	3.5	2.0	1.8
STD ERR OF P	1.1	2.8	1.8	2.5	1.4	1.4	1.6	2.8	0.9	4.3	2.6	1.8	1.0	3.5	3.8	1.7	2.2	3.7	2.1	1.8
AGE: Ad																				
DELTA-P	12.9	4.7*	-1.1	-0.7	-1.9	-2.7#	2.5#	15.5#	-2.8#	5.9#	2.7	-1.3	-7.5#	10.8#	-2.8	0.6	2.0	-4.1	-1.5	-5.5#
STD ERR OF DP		2.0	2.3	1.2	1.4	0.9	0.9	3.3	0.5	1.8	2.0	1.2	1.3	4.3	2.8	1.3	3.0	2.8	2.3	2.1
STD ERR OF P	1.0	2.3	3.0	1.0	1.4	1.0	1.6	3.0	0.9	2.0	2.3	1.5	1.4	4.7	2.7	1.4	3.2	2.7	2.8	2.3
RESPONSE: 02 AGE: 17	TEXT: 1967																			
DELTA-P	0.9	1.2*	-0.8#	-0.5	0.4	-0.2	0.2	-0.2	0.1	-0.1	0.1	-0.0	-0.2	0.3	0.0	-0.1	-0.6*	-0.5	0.2	0.9
STD ERR OF DP		0.5	0.2	0.3	0.3	0.2	0.2	0.3	0.1	0.7	0.7	0.3	0.3	0.8	0.5	0.3	0.3	0.3	0.6	0.8
STD ERR OF P	0.2	0.6	0.1	0.3	0.4	0.3	0.4	0.2	0.2	0.7	0.7	0.3	0.3	0.9	0.5	0.4	0.2	0.2	0.6	0.8
AGE: Ad																				
DELTA-P	0.5	0.2	0.1	-0.2	-0.1	-0.2	0.2	0.2	-0.1	0.1	1.0	-0.1	-0.5#	1.2	0.5	-0.2	-0.2	1.2	-0.5#	-0.5#
STD ERR OF DP		0.3	0.3	0.2	0.2	0.2	0.1	0.5	0.1	0.3	0.6	0.2	0.1	0.7	0.8	0.2	0.3	1.0	0.1	0.1
STD ERR OF P	0.1	0.3	0.3	0.3	0.2	0.2	0.2	0.5	0.1	0.3	0.7	0.3	0.0	0.7	0.8	0.2	0.3	1.0	0.0	0.0
RESPONSE: 03* AGE: 17	TEXT: 1968																			
DELTA-P	76.5	-13.1#	1.7	1.0	7.3#	2.5*	-2.5	-36.5#	6.6#	-26.5#	-15.3#	0.4	10.5#	-26.4#	-11.0*	0.4	3.0	2.0	6.7#	12.5#
STD ERR OF DP		2.9	2.2	2.5	1.7	1.2	1.3	3.2	0.9	4.1	2.8	1.4	1.2	3.7	5.5	2.3	2.9	4.7	2.5	2.1
P-VALUE	76.5	63.4	78.2	77.5	83.8	79.0	74.0	40.0	83.1	50.0	60.6	76.9	87.0	50.2	65.5	76.9	79.5	78.5	83.2	89.0
STD ERR OF P	1.4	3.2	2.4	3.3	1.6	1.8	1.9	3.3	1.0	4.6	3.1	2.2	1.3	4.0	5.5	2.4	3.0	5.0	2.6	2.1
AGE: Ad																				
DELTA-P	77.9	-6.5#	2.2	0.9	2.1	3.8#	-3.6#	-34.5#	6.1#	-10.8#	-2.6	4.2*	12.4#	-23.6#	-1.2	0.6	-0.6	2.6	4.3	10.7#
STD ERR OF DP		2.6	2.7	2.0	2.0	1.3	1.2	3.5	0.8	2.1	2.5	1.7	1.6	5.2	3.6	1.6	4.0	3.9	3.3	3.0
P-VALUE	77.9	71.4	80.1	78.9	80.0	81.8	74.4	43.5	84.0	67.1	75.3	82.1	90.3	54.3	76.8	78.6	77.4	80.6	82.2	88.6
STD ERR OF P	1.3	2.8	3.4	2.3	2.0	1.6	2.0	3.6	1.1	2.5	2.8	2.0	1.8	5.5	3.7	1.9	4.2	3.8	3.8	3.2
RESPONSE: 04 AGE: 17	TEXT: 1969																			
DELTA-P	0.8	0.7	0.2	0.1	-0.7#	-0.0	0.0	2.5#	-0.4#	0.9	1.9	0.0	-0.6#	1.5	0.7	0.2	-0.4	0.3	-0.8#	-0.7#
STD ERR OF DP		0.4	0.4	0.4	0.2	0.2	0.2	1.0	0.2	0.7	1.2	0.3	0.2	1.0	0.7	0.3	0.3	1.1	0.2	0.2
STD ERR OF P	0.2	0.5	0.4	0.5	0.1	0.3	0.2	1.1	0.2	0.7	1.3	0.3	0.1	1.1	0.8	0.4	0.3	1.1	0.0	0.1
AGE: Ad																				
DELTA-P	0.9	-0.2	-0.4	0.2	0.4	-0.1	0.1	1.4	-0.1	-0.5	-0.1	0.6	-0.6	-0.2	0.4	0.1	0.4	0.4	-0.0	-0.9#
STD ERR OF DP		0.4	0.3	0.5	0.5	0.3	0.3	1.1	0.1	0.3	0.5	0.5	0.3	0.7	0.8	0.3	0.8	1.1	0.6	0.3
STD ERR OF P	0.3	0.5	0.3	0.6	0.5	0.4	0.3	1.2	0.3	0.3	0.6	0.7	0.2	0.7	0.9	0.5	0.9	1.2	0.6	0.0
RESPONSE: 05 AGE: 17	TEXT: 1970																			
DELTA-P	3.1	2.6*	0.3	-1.4#	-0.6	0.1	-0.1	7.0#	-1.4#	6.2#	3.0#	-0.9	-1.5#	3.8*	3.3	-0.1	0.3	-0.6	-2.6#	-1.6
STD ERR OF DP		1.1	0.8	0.6	0.7	0.4	0.4	1.7	0.2	2.2	1.1	0.5	0.4	1.8	2.1	0.6	1.1	1.4	0.5	0.8
STD ERR OF P	0.4	1.3	1.0	0.6	0.8	0.5	0.7	1.9	0.3	2.4	1.2	0.6	0.5	1.9	2.2	0.7	1.3	1.5	0.3	0.8

```
                              NATION |             REGION                |       SEX       |     RACE       |   PARENTAL EDUCATION          |            SIZE-AND-TYPE OF COMMUNITY
                                     | SOUTH                       NORTH |                 |                |        SOME   GRAD   POST    | LOW   EXTREME SMALL  MEDIUM  MAIN   URBAN   HIGH
                             ________|_EAST___WEST_CENTRAL__EAST___|__MALE__FEMALE_|_BLACK__WHITE__|_NO HS___HS_____HS_____HS____|_METRO__RURAL__PLACES__CITY_BIG CTY_FRINGE_METRO_

EXERCISE: RQ02

According to the chart, for which year did federal grants for education decrease from the prior year?


RESPONSE:  05    AGE: Ad        TEXT:  1970

    DELTA-P                   2.5     -0.1    0.5    0.5   -1.1     0.0   -0.0     6.5*  -1.5*    2.5*  -0.2   -1.8*  -1.0     6.0*   0.7   -0.6   -1.5   -0.4   -1.5*  -0.1
    STD ERR OF DP                      0.8    0.7    0.9    0.6     0.5    0.5     2.4    0.4     0.9    0.5    0.5    0.9     2.7    1.4    0.5    1.0    1.5    0.7    1.7
    STD ERR OF P              0.4      0.8    0.8    1.1    0.5     0.8    0.5     2.6    0.3     1.1    0.8    0.3    1.0     3.0    1.5    0.5    1.0    1.5    0.6    1.8

RESPONSE:  09    AGE: 17        TEXT:  I Don't Know.

    DELTA-P                   2.6      1.0    0.5   -0.7   -0.4     0.4   -0.4     6.5*  -1.1*    7.7*   0.8  [illegible] -1.9*   4.6*  -0.4   -0.2   -0.8   -0.4   -0.8   -0.8
    STD ERR OF DP                      0.7    0.7    0.7    0.6     0.4    0.4     1.6    0.3     3.2    0.9  [illegible]  0.4    1.9    1.1    0.7    0.9    1.4    0.9    1.2
    STD ERR OF P              0.4      0.7    0.7    0.8    0.7     0.6    0.6     1.8    0.3     3.4    1.0    0.6    0.3     2.1    1.1    0.8    0.9    1.5    0.9    1.2

                 AGE: Ad

    DELTA-P                   4.9      2.4   -1.1   -0.4   -0.4    -1.1    1.0     8.1*  -1.2*    3.1*  -0.7   -2.2*  -2.4*    2.4    2.7   -0.1    0.2    0.7   -0.8   -3.3*
    STD ERR OF DP                      1.7    0.8    0.9    0.9     0.6    0.6     2.9    0.8     1.2    1.2    0.7    0.9     1.8    1.9    0.6    1.5    2.2    1.7    1.1
    STD ERR OF P              0.6      2.0    0.7    1.1    1.0     0.7    1.0     3.2    0.5     1.6    1.3    0.7    0.8     1.9    2.0    0.9    1.7    2.3    1.8    1.0
```

8Q03
OBJ III

U.S. Rural Population for Nine Regions in 1970

Region	Rural Population (O = 1 million persons)
1. New England	000
2. Middle Atlantic	0000000
3. East North Central	0000000000
4. West North Central	000000
5. South Atlantic	00000000000U
6. East South Central	000000
7. West South Central	00000
8. Mountain	00
9. Pacific	0000

According to the chart, which TWO regions of the U.S. had the largest rural populations in 1970?

ANSWER ______________________________

____

SCORING GUIDE
8Q03
J30014-2

00 = No Response

10 = 3 and 5

11 = 5 and no other answer

20 = Any other response

39 = I Don't Know.

Note: Only Category 10 was considered acceptable.

Report #: 8Q03

NAEP #: J30014-2

Content Area: D. METHODS OF REPRESENTING DATA

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age: 13
Package-Exercise: 07-17
National P-value:
8Q03 78.59

Timing: (in seconds)
Stimulus: 8
Response: 31
8Q03 Exercise total: 39

EXERCISE: RQ03

According to the chart, which TWO regions of the U.S. had the largest rural populations in 1970?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.7	-0.1	-0.0	0.9	-0.8	1.1#	-1.1#	1.8	-0.3	1.3	0.8	-0.4	-0.7	3.7	3.7	-0.8	-1.1	-0.7	-0.3	-1.2*
STD ERR OF DP		0.7	0.6	1.2	0.7	0.2	0.2	1.2	0.2	1.1	1.0	0.3	0.3	1.9	3.4	0.6	0.7	0.7	0.7	0.6
STD ERR OF P	0.5	0.6	0.5	1.7	0.7	0.7	0.4	1.3	0.6	1.4	1.3	0.6	0.5	1.9	3.9	0.4	0.6	0.6	0.7	0.3
RESPONSE: 10* AGE: 13 TEXT: 3 and 5 (Only category 10 was considered to be the acceptable response.)																				
DELTA-P	78.6	-3.5*	2.4	-0.3	1.2	-6.2#	6.1#	-19.2#	3.8#	-4.4	-1.8	-2.5*	6.5#	-23.1#	-2.2	-1.9	5.1#	1.4	3.3	9.3#
STD ERR OF DP		1.6	2.0	1.9	2.4	0.9	0.9	2.2	0.7	3.4	2.5	1.0	1.0	7.1	3.1	1.4	1.8	2.0	2.2	1.7
P-VALUE	78.6	75.1	81.0	78.3	79.8	72.4	84.7	59.4	82.4	74.2	76.8	76.1	85.1	55.5	76.4	76.7	83.7	80.0	81.9	87.9
STD ERR OF P	1.2	1.5	2.3	2.2	3.0	1.7	1.3	2.6	1.1	3.6	2.7	1.7	1.3	7.8	3.2	1.2	1.7	2.3	2.3	1.8
RESPONSE: 11 AGE: 13 TEXT: 5 and no other answer																				
DELTA-P	12.7	2.1	-2.0	0.9	-0.9	3.1#	-3.0#	10.2#	-2.2#	3.5	-1.1	2.2*	-3.8#	7.0*	-1.0	1.8	-2.4	1.4	-1.1	-4.9#
STD ERR OF DP		1.1	1.2	1.3	1.3	0.7	0.7	1.8	0.5	2.8	2.0	1.0	0.7	2.8	2.6	0.9	1.3	1.3	2.0	1.8
STD ERR OF P	0.7	1.2	1.3	1.6	1.5	1.1	1.0	1.9	0.7	2.8	2.1	1.4	1.0	3.1	2.8	1.0	1.4	1.4	2.1	2.0
RESPONSE: 20 AGE: 13 TEXT: Any other response																				
DELTA-P	5.5	1.0	0.1	-0.6	-0.4	1.5*	-1.5*	4.9#	-0.9#	-1.0	0.7	0.4	-1.0*	5.6	0.9	0.5	-0.9	-1.4	-1.3	-1.7
STD ERR OF DP		0.8	1.0	0.9	1.0	0.6	0.6	1.3	0.3	1.5	1.4	0.8	0.5	3.4	1.8	0.9	1.0	1.0	0.9	0.9
STD ERR OF P	0.5	0.8	1.2	1.1	1.2	1.0	0.6	1.5	0.6	1.5	1.4	0.9	0.7	3.6	1.9	1.0	1.0	1.1	0.9	0.9
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	1.5	0.5	-0.5	-0.9	0.9	0.6*	-0.6*	2.3	-0.4	0.6	1.4	0.4	-1.0#	6.9	-1.4#	0.3	-0.7	-0.8	-0.5	-1.5#
STD ERR OF DP		0.6	0.5	0.5	1.1	0.3	0.3	1.6	0.3	0.9	1.2	0.4	0.3	4.3	0.4	0.5	0.5	0.6	0.7	0.4
STD ERR OF P	0.4	0.6	0.4	0.3	1.5	0.6	0.4	2.0	0.3	1.1	1.2	0.7	0.3	4.7	0.1	0.5	0.5	0.4	0.7	0.0

RQ04
OBJ IV

Number of Telephones in Operation in Various
World Areas in 1968
(0 = 8 million telephones)

Area	No. of Telephones
North America	0000000000000000
Europe	0000000000
Asia	0000

According to the chart, in 1968 the number of telephones in operation in North America was how many times the number of telephones in operation in Asia?

ANSWER ______________________

Report #: RQ04

NAEP #: J30016-34

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		05-26	05-31
National P-value:			
	RQ04	58.86	61.65
Timing: (in seconds)			
	Stimulus:	10	11
	Response:	31	*
RQ04	Exercise total:	41	*

*Time not limited by paced tape.

SCORING GUIDE
RQ04
J30016-34

00 = No Response

10 = 4; 4 times (as many); 4X

11 = 1/4 as many in Asia; 1/4 as many as in North America

20 = 16; 16 times

21 = 12; 12 times

22 = Other Unacceptable

23 = 96 million; 96; attempt to multiply (16 - 4) by (8 million)

24 = 3

39 = I Don't Know.

EXERCISE: RQ04

According to the chart, in 1968 the number of telephones in operation in North America was how many times the number of telephones in operation in Asia?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	1.7	-0.4	0.6	-0.1	-0.1	0.6	-0.5	2.1*	-0.9*	0.9	-0.9	-0.2	-0.3	2.7*	-0.1	-0.2	0.2	0.5	-1.6#	-0.5
STD ERR OF DP		0.5	1.0	0.5	0.6	0.5	0.4	1.1	0.4	1.1	0.5	0.5	0.3	1.2	0.9	0.6	0.7	1.2	0.4	0.9
STD ERR OF P	0.4	0.5	1.2	0.6	0.6	0.8	0.4	1.1	0.3	1.1	0.5	0.5	0.5	1.2	0.8	0.8	0.8	1.2	0.1	0.9
AGE: Ad																				
DELTA-P	0.7	0.7	-0.2	-0.7#	0.4	-0.4	0.4	1.9	-0.2	0.5	-0.2	-0.1	-0.5	-0.3	1.8	0.4	-0.7#	-0.2	-0.7#	-0.7#
STD ERR OF DP		0.5	0.3	0.2	0.5	0.3	0.3	1.3	0.2	0.7	0.4	0.3	0.3	0.4	1.2	0.4	0.2	0.6	0.2	0.2
STD ERR OF P	0.2	0.6	0.4	0.0	0.6	0.2	0.4	1.4	0.2	0.8	0.2	0.4	0.3	0.4	1.3	0.6	0.0	0.6	0.0	0.0
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	54.9	-6.0*	0.1	0.9	3.8	6.3#	-5.4#	-27.9#	6.4#	-22.8#	-16.1#	-5.2#	13.3#	-19.2#	1.7	-2.2	8.8#	-5.7	0.3	12.5#
STD ERR OF DP		2.7	2.8	2.4	2.4	1.3	1.2	2.7	1.0	3.9	3.0	1.9	1.4	4.3	2.7	1.8	2.9	4.3	3.2	2.9
P-VALUE	54.9	48.9	54.9	55.8	58.7	61.1	49.4	26.9	61.3	32.0	38.7	49.6	68.2	35.6	56.6	52.7	63.6	49.2	55.2	67.3
STD ERR OF P	1.5	2.9	3.3	3.0	2.7	1.7	2.1	2.8	1.3	4.3	3.1	2.5	1.4	4.8	2.5	2.3	2.9	4.3	3.5	3.2
AGE: Ad																				
DELTA-P	61.7	-5.0	-0.8	0.8	4.0*	6.2#	-5.8#	-28.2#	5.2#	-14.3#	-2.1	5.1*	12.7#	-16.2#	-13.3*	0.1	6.5	3.7	-1.8	12.9#
STD ERR OF DP		3.4	2.6	1.8	2.0	1.2	1.1	3.4	0.8	2.3	2.4	2.2	2.2	3.7	6.1	1.8	4.0	4.9	3.1	3.8
P-VALUE	61.7	56.7	60.9	62.5	65.7	67.9	55.9	33.5	66.8	47.3	59.6	66.8	74.4	45.5	48.3	61.8	68.2	65.3	59.9	74.5
STD ERR OF P	1.4	4.0	3.2	1.7	2.0	1.8	1.7	3.6	1.4	2.9	2.7	2.4	2.4	3.6	6.5	2.0	4.3	5.3	3.4	3.9
RESPONSE: 10 AGE: 17	TEXT: 4; 4 times (as many); 4X																			
DELTA-P	54.8	-5.9*	0.1	1.0	3.6	6.3#	-5.4#	-27.9#	6.4#	-22.8#	-16.1#	-5.2#	13.4#	-19.6#	1.8	-2.1	8.7#	-5.7	0.4	12.5#
STD ERR OF DP		2.7	2.8	2.4	2.3	1.3	1.2	2.7	1.0	3.9	3.0	1.9	1.4	4.3	2.7	1.8	2.9	4.3	3.2	2.9
STD ERR OF P	1.5	2.9	3.3	3.0	2.6	1.7	2.1	2.8	1.3	4.3	3.1	2.5	1.4	4.7	2.5	2.3	2.9	4.3	3.5	3.2
AGE: Ad																				
DELTA-P	61.6	-5.0	-0.8	1.0	4.0*	6.3#	-5.9#	-28.1#	5.2#	-14.3#	-2.0	5.0*	12.8#	-16.1#	-13.8*	0.2	6.6	3.8	-1.9	13.0#
STD ERR OF DP		3.4	2.6	1.8	2.0	1.2	1.1	3.4	0.8	2.3	2.4	2.2	2.2	3.7	6.0	1.8	4.0	5.0	3.1	3.8
STD ERR OF P	1.4	4.0	3.2	1.7	2.0	1.8	1.7	3.6	1.4	2.9	2.7	2.4	2.4	3.6	6.4	2.1	4.3	5.3	3.4	3.9
RESPONSE: 11 AGE: 17	TEXT: 1/4 as many in Asia; 1/4 as many as in North America																			
DELTA-P	0.1	-0.1	-0.1	-0.1	0.2	0.0	-0.0	-0.1	0.0	-0.1	-0.1	0.0	-0.1	0.4	-0.1	-0.1	0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.1	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.1	0.1	0.0	-0.1	0.1	-0.1	0.1	-0.1	-0.0	0.0	-0.1	0.2	-0.1	-0.1	0.5	-0.0	-0.1	-0.1	0.2	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.5	0.1	0.1	0.1	0.2	0.1
STD ERR OF P	0.1	0.2	0.1	0.0	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.6	0.1	0.0	0.0	0.3	0.0
RESPONSE: 20 AGE: 17	TEXT: 16; 16 times																			
DELTA-P	0.7	0.3	-0.2	-0.5#	0.4	-0.4*	0.3*	0.3	-0.1	0.5	-0.1	0.4	-0.4*	1.7	-0.2	-0.1	-0.1	-0.4	0.2	-0.6#
STD ERR OF DP		0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.1	0.6	0.4	0.3	0.2	0.9	0.3	0.2	0.4	0.3	0.6	0.2
STD ERR OF P	0.2	0.4	0.2	0.1	0.4	0.2	0.3	0.4	0.2	0.6	0.4	0.4	0.2	1.0	0.3	0.3	0.4	0.3	0.6	0.1
AGE: Ad																				
DELTA-P	1.0	0.7	-0.4	0.1	-0.3	-0.4	0.3	0.6	-0.1	0.5	-0.6	-0.3	-0.2	0.2	2.3	-0.0	-0.8#	0.2	-0.5	-0.6
STD ERR OF DP		0.5	0.3	0.4	0.4	0.3	0.2	0.8	0.1	0.5	0.3	0.3	0.4	0.8	1.6	0.3	0.3	0.7	0.5	0.4
STD ERR OF P	0.2	0.6	0.3	0.5	0.4	0.3	0.4	0.9	0.3	0.6	0.3	0.3	0.5	0.9	1.7	0.4	0.2	0.8	0.5	0.4
RESPONSE: 21 AGE: 17	TEXT: 12; 12 times																			
DELTA-P	13.7	1.4	-0.2	0.7	-1.9	-3.7#	3.2#	4.8	-1.5*	6.3*	3.7	2.1	-3.9#	-0.6	-0.6	2.0	-2.6	0.2	-0.3	-1.9
STD ERR OF DP		1.6	1.7	1.5	1.4	1.0	0.9	2.6	0.7	2.5	2.7	1.2	0.9	2.9	1.9	1.2	1.8	2.5	3.0	2.1
STD ERR OF P	0.9	1.7	2.0	1.8	1.6	1.2	1.4	2.9	0.8	2.9	2.8	1.7	0.9	3.2	2.0	1.5	1.7	2.7	3.3	2.2

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                          NATION |         REGION           |     SEX      |     RACE      |     PARENTAL EDUCATION       |              SIZE-AND-TYPE OF COMMUNITY
                                 | SOUTH             NORTH  |              |               |        SOME   GRAD   POST    |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                          -------|  EAST  WEST CENTRAL EAST | MALE  FEMALE | BLACK  WHITE  | NO HS   HS     HS     HS     | METRO  RURAL  PLACES  CITY BIG CIY FRINGE METRO

EXERCISE: RQ04
According to the chart, in 1968 the number of telephones in operation in North America was how many times the number of telephones in operation in Asia?

RESPONSE:  21    AGE: Ad       TEXT:  12; 12 times
    DELTA-P                9.5    -1.5   2.7*   1.2  -2.8#   -2.0*  1.8*    3.7  -0.9*    1.7   2.6  -1.3  -2.3     1.3   3.4   0.6  -2.7*  -2.7   2.9  -3.3
    STD ERR OF DP                  1.1   1.3    1.2   1.1     0.8   0.8     2.8   0.4     1.3   2.1   1.1   1.3  [illegible] 2.3   0.8   1.3   1.9   1.9   2.1
    STD ERR OF P           0.7     1.1   1.5    1.5   1.2     1.0   1.2     3.0   0.8     1.5   2.2   1.3   1.5     2.8   2.4   1.1   1.3   1.8   1.9   2.3

RESPONSE:  22    AGE: 17       TEXT:  Other Unacceptable
    DELTA-P               13.8     1.9  -0.3   -1.0  -0.1    -0.8   0.7    15.7#  -2.9#   4.3   7.9#  2.3  -4.6#   10.6#  0.2  -1.1  -2.9   9.6#  -4.2*  -3.1
    STD ERR OF DP                  1.8   1.5    1.4   1.3     0.9   0.8     2.8   0.6     2.4   2.9   1.4   0.9     3.7   2.6   1.1   1.8   3.7   2.0   2.1
    STD ERR OF P           0.8     2.1   1.7    1.7   1.4     1.2   1.2     3.1   0.8     2.5   3.2   1.7   1.0     3.9   2.7   1.2   1.9   4.0   2.0   2.2

                 AGE: Ad
    DELTA-P               11.0     1.7   0.2    0.3  -2.0    -0.9   0.8     8.7#  -1.4#   4.7#  -0.2  -1.1  -3.5#   6.6*  6.6  -2.8#   2.4  -1.1   1.5  -4.3#
    STD ERR OF DP                  1.8   1.4    1.5   1.2     0.7   0.7     2.2   0.3     1.7   1.6   1.3   1.1     2.8   3.7   0.9   2.4   2.3   2.3   1.7
    STD ERR OF P           0.8     2.0   1.6    1.8   1.3     1.2   1.0     2.2   0.9     2.0   1.8   1.5   1.2     2.9   3.9   1.0   2.6   2.6   2.5   1.7

RESPONSE:  23    AGE: 17       TEXT:  96 million; 96; attempt to multiply (16 - 4) by (8 million)
    DELTA-P                2.9     0.1  -0.6    0.5  -0.1    -0.0   0.0    -0.1   0.0     0.8   0.5   1.9#  -1.2#    1.0   1.4  -0.4  -0.7  -0.8   2.1  -1.3
    STD ERR OF DP                  0.5   0.5    0.7   0.7     0.5   0.4     0.8   0.2     1.8   0.9   0.6   0.4     1.2   2.1   0.4   0.6   1.0   1.5   1.0
    STD ERR OF P           0.4     0.5   0.5    0.9   0.8     0.5   0.7     0.8   0.4     2.0   0.9   0.8   0.5     1.2   2.3   0.4   0.5   1.0   1.6   1.0

                 AGE: Ad
    DELTA-P                2.5     0.5  -0.1    0.0  -0.4    -0.5   0.5     2.0  -0.5     0.8  -0.7   0.6  -1.5*   -0.9  -1.6*  0.5  -1.3   2.9   0.7  -1.0
    STD ERR OF DP                  0.9   0.6    0.8   0.6     0.5   0.4     1.9   0.3     0.7   0.8   0.7   0.6     0.8   0.7   0.5   0.9   2.7   1.6   0.8
    STD ERR OF P           0.4     1.0   0.7    0.9   0.5     0.5   0.7     2.1   0.4     0.9   0.8   0.9   0.6     0.8   0.5   0.6   0.8   2.9   1.7   0.8

RESPONSE:  24    AGE: 17       TEXT:  3
    DELTA-P                7.6     1.4  -0.4    0.5  -1.4    -0.8   0.7     0.0  -0.1     1.4   3.9#  0.5  -1.3*    0.5   0.2   0.7  -0.8  -3.0   4.4*  -3.8*
    STD ERR OF DP                  1.6   1.0    1.1   1.0     0.7   0.6     1.4   0.3     2.0   1.5   0.9   0.5     2.3   1.3   1.0   1.5   1.7   2.1   1.8
    STD ERR OF P           0.7     2.0   1.0    1.4   1.1     0.9   1.0     1.4   0.8     2.2   1.7   1.2   0.9     2.2   1.3   1.3   1.5   1.7   2.4   1.8

                 AGE: Ad
    DELTA-P                6.4    -0.3   0.5    1.0  -1.3    -1.6*  1.5*   -1.6   0.0     0.1  -1.7   0.1   0.3     0.5  -0.3   1.3  -1.5  -0.6  -3.4#   0.6
    STD ERR OF DP                  1.3   1.4    1.1   1.2     0.7   0.7     1.9   0.3     1.2   1.3   1.1   1.0     2.3   2.2   1.1   1.7   1.4   1.2   1.4
    STD ERR OF P           0.7     1.4   1.7    1.3   1.3     0.9   1.1     1.6   0.7     1.2   1.3   1.4   1.3     2.4   2.2   1.6   1.5   1.3   1.2   1.4

RESPONSE:  39    AGE: 17       TEXT:  I Don't Know.
    DELTA-P                4.7     1.2   0.9   -1.1  -0.7    -1.2*  1.0*    5.0#  -1.1#   8.7#   1.2  -1.8#  -1.5#    3.4  -2.5#  1.3*  -1.9  -0.4  -1.0  -1.3
    STD ERR OF DP                  0.7   0.7    0.8   0.9     0.5   0.5     1.7   0.3     2.8   1.4   0.6   0.5     2.1   1.0   0.6   1.1   1.5   1.1   1.1
    STD ERR OF P           0.5     0.7   0.8    0.9   1.1     0.5   0.8     1.9   0.5     3.1   1.5   0.6   0.6     2.3   0.9   0.8   1.2   1.5   1.1   1.1

                 AGE: Ad
    DELTA-P                7.3     3.1  -2.0   -2.6   2.3    -0.6   0.5    12.9#  -2.2#   5.9#   3.0  -3.1#  -5.1#    8.7#  1.2  -0.4  -2.3  -2.2   1.4  -3.6*
    STD ERR OF DP                  2.2   1.3    1.4   1.4     0.7   0.7     3.4   0.6     1.4   1.3   1.0   1.1     3.0   2.8   0.9   1.9   2.8   2.0   1.5
    STD ERR OF P           0.9     2.6   1.3    1.6   1.6     1.2   1.1     3.9   0.7     2.0   2.2   1.1   0.9     3.3   3.0   1.3   2.1   3.0   2.2   1.4
```

834

833

RQ05
OBJ IV

The graph on the opposite page shows the monthly production of Company X during 1971.

A. The greatest drop in production from one month to the next occurred between what two months?

ANSWER ________ to ________

B. The difference between maximum and minimum monthly production during 1971 was approximately how many units?

ANSWER ____________

Report #: RQ05

NAEP #: J30035- 34

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

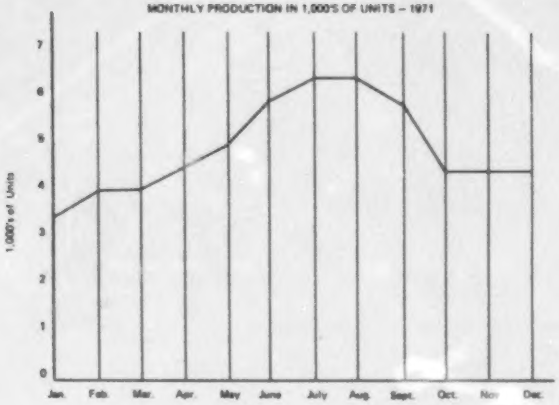
Exercise Type: Multiple part short answer using graph
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		08-22	09-25	06-28
National P-value:				
	RQ05A	44.80	68.51	62.52
	RQ05B	6.89	20.62	25.19
Timing: (in seconds)				
	Introduction:	8	7	8
	Stimulus:	7	6	7
	Response:	31	31	*
RQ05A	Part total:	38	37	*
	Stimulus:	9	8	9
	Response:	32	31	*
RQ05B	Part total:	41	39	*
RQ05	Exercise total:	87	83	*

*Time not limited by paced tape.

RQ05
OBJ IV

(Continued)



SCORING GUIDE
RQ05
J30035-234

Part A. 00 = No Response
10 = September to October; 9-10; 9 to 10
20 = January to February; 1-2
21 = Other Unacceptable
22 = August to October
23 = January to December
39 = I Don't Know.

Part B. 00 = No Response
10 = A number from 2800 to 3200
11 = A number from 3201 to 3500
12 = A number from 2500 to 2799
20 = A number from 2.8 to 3.2
21 = A number from 3.201 to 3.5
22 = A number from 2.5 to 2.799
23 = Other Unacceptable
39 = I Don't Know.

EXERCISE: RQ05

Part A. According to the graph that shows the monthly production of Company X, the greatest drop in production from one month to the next occurred between what two months?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.7	0.0	-0.3	0.2	0.0	-0.0	0.0	4.5#	-0.9#	1.6	-1.4#	0.2	-1.1#	4.3#	-1.7#	-0.5	-0.2	2.1	-0.3	-1.3#
STD ERR OF DP		0.5	0.4	0.7	0.5	0.3	0.3	1.3	0.3	1.2	0.4	0.4	0.3	1.6	0.3	0.4	0.7	2.0	0.7	0.4
STD ERR OF P	0.3	0.5	0.4	0.9	0.5	0.4	0.5	1.5	0.2	1.3	0.3	0.7	0.3	1.6	0.0	0.4	0.7	2.2	0.7	0.4
AGE: 17																				
DELTA-P	1.4	0.5	-0.5	0.0	-0.3	0.3	-0.3	3.7*	-1.0*	1.5	0.8	-0.0	-0.9*	1.2	-0.5	-0.8	1.1	-0.0	1.6	-1.4#
STD ERR OF DP		1.0	0.6	0.8	0.6	0.3	0.2	1.8	0.4	1.0	0.6	0.4	0.4	1.0	0.5	0.5	2.0	0.8	1.4	0.4
STD ERR OF P	0.4	1.2	0.6	1.0	0.6	0.6	0.4	2.1	0.2	1.[illegible]	0.8	0.7	0.2	1.1	0.4	0.4	2.3	0.9	1.6	0.0
AGE: Ad																				
DELTA-P	0.4	0.4	0.0	-0.4#	0.1	0.1	-0.1	1.4	-0.2*	0.1	-0.4#	-0.2	-0.1	0.5	0.8	-0.1	-0.4#	-0.4#	0.7	-0.4#
STD ERR OF DP		0.3	0.2	0.1	0.3	0.2	0.1	0.8	0.1	0.2	0.1	0.2	0.2	0.6	0.6	0.2	0.1	0.1	0.6	0.1
STD ERR OF P	0.1	0.3	0.3	0.0	0.3	0.2	0.2	0.9	0.1	0.3	0.0	0.2	0.3	0.6	0.6	0.2	0.0	0.0	0.7	0.0
RESPONSE: 10* AGE: 13 TEXT: September to October; 9-10; 9 to 10																				
DELTA-P	44.8	-6.1*	-6.1*	7.0*	5.1	3.5#	-3.5#	-34.1#	7.2#	-25.4#	-14.9#	0.5	12.5#	-27.6#	-0.7	1.8	-1.4	-6.8	7.2	13.5#
STD ERR OF DP		2.9	2.8	3.1	3.7	1.2	1.3	2.5	0.9	3.6	4.0	1.8	1.7	3.9	4.9	2.6	4.5	4.9	4.1	3.9
P-VALUE	44.8	38.7	38.7	51.8	49.9	48.3	41.3	10.7	52.0	19.4	29.9	45.3	57.3	17.2	44.1	46.6	43.4	38.0	52.0	58.3
STD ERR OF P	1.9	3.3	3.1	3.5	4.4	2.1	2.4	2.1	[illegible]	3.4	4.5	2.5	2.4	3.8	5.1	2.8	4.8	5.5	4.6	4.5
AGE: 17																				
DELTA-P	68.5	-6.1#	-1.9	0.6	5.9#	3.0#	-2.8#	-39.0#	8.3#	-27.7#	-19.3#	2.0	11.5#	-24.5#	-4.9	3.6	-1.5	-6.7	7.1#	11.0#
STD ERR OF DP		2.3	2.0	2.1	2.2	1.2	1.1	3.5	0.9	3.2	2.8	1.7	1.2	5.1	3.1	1.8	3.2	4.0	2.7	2.9
P-VALUE	68.5	62.5	66.6	69.1	74.4	71.5	65.7	29.5	76.8	40.8	49.2	70.5	80.0	44.0	63.6	72.1	67.0	61.8	75.6	79.5
STD ERR OF P	1.3	2.5	2.2	2.6	2.6	1.7	1.7	3.4	1.1	3.3	3.0	2.2	1.2	5.1	3.2	2.1	3.2	4.4	3.0	2.9
AGE: Ad																				
DELTA-P	62.5	-6.4*	2.9	3.2	-1.2	4.8#	-4.4#	-38.6#	5.9#	-15.4#	-7.3#	5.0#	17.6#	-25.5#	-5.9	1.1	4.1	-3.8	-1.5	17.8#
STD ERR OF DP		2.8	2.8	2.6	2.5	1.2	1.1	3.0	0.7	1.8	2.7	1.8	2.0	3.6	4.5	2.1	4.5	5.4	3.1	2.6
P-VALUE	62.5	56.1	65.4	65.7	61.3	67.3	58.1	23.9	68.4	47.1	55.3	67.6	80.1	37.0	56.6	63.6	66.7	58.8	61.1	80.3
STD ERR OF P	1.5	3.0	3.4	3.1	2.9	2.0	1.8	2.9	1.6	2.3	2.6	2.3	2.3	3.7	4.3	2.8	4.9	5.7	3.2	2.5
RESPONSE: 20 AGE: 13 TEXT: January to February; 1-2																				
DELTA-P	14.1	2.6	2.1	-3.4*	-1.1	-2.6#	2.7#	6.1#	-0.9*	-0.3	12.9#	-0.1	-1.9*	5.8#	-0.7	-1.1	3.5	-0.8	-2.0	-2.2
STD ERR OF DP		2.5	1.7	1.6	1.6	0.9	0.9	2.2	0.4	2.2	2.8	1.2	0.9	2.1	1.9	1.3	3.5	2.6	2.2	1.9
STD ERR OF P	1.1	3.2	1.9	1.6	1.6	1.2	1.6	2.5	1.2	2.2	3.3	1.5	1.7	2.0	1.8	1.3	4.2	2.9	2.4	1.9
AGE: 17																				
DELTA-P	5.4	2.3*	0.3	-0.4	-1.7*	-1.7#	1.6#	8.7#	-2.1#	6.8#	4.6#	-0.1	-3.1#	5.5*	2.2	0.4	-2.4*	3.4	-1.5	-5.0#
STD ERR OF DP		1.0	1.0	1.1	0.8	0.5	0.5	2.4	0.5	2.3	1.6	0.8	0.5	2.5	2.4	0.8	1.1	2.1	1.1	0.6
STD ERR OF P	0.6	1.1	1.2	1.4	0.9	0.6	0.9	2.6	0.5	2.4	1.8	1.0	0.7	2.8	2.6	0.9	1.0	2.4	1.2	0.3
AGE: Ad																				
DELTA-P	6.6	1.5	-1.3	0.1	-0.1	-2.3#	2.2#	11.9#	-1.7#	5.3#	2.5	-3.4#	-3.6#	6.3*	2.7	-0.3	-1.2	1.6	1.1	-6.0#
STD ERR OF DP		1.1	0.8	0.8	1.0	0.6	0.6	3.2	0.4	1.3	1.9	0.9	0.7	2.7	3.2	0.7	1.5	1.9	1.5	0.6
STD ERR OF P	0.5	1.2	0.9	0.9	1.2	0.7	0.9	3.4	0.5	1.5	2.1	0.9	0.7	2.9	3.3	0.7	1.5	2.1	1.5	0.5
RESPONSE: 21 AGE: 13 TEXT: Other Unacceptable																				
DELTA-P	29.7	5.0#	4.1	-3.4	-5.8#	-1.4	1.4	17.7#	-3.9#	19.8#	4.4	0.4	-7.0#	12.0#	2.6	0.5	-3.0	8.4*	-4.4	-9.2#
STD ERR OF DP		2.0	2.2	2.0	2.3	1.0	1.0	3.6	0.6	3.3	3.3	1.6	1.2	4.1	3.5	1.9	2.8	4.2	3.0	3.2
STD ERR OF P	1.3	2.1	2.6	2.3	2.7	1.8	1.4	3.7	1.2	3.6	3.7	1.9	1.4	4.2	3.5	2.2	3.0	4.5	3.3	3.5
AGE: 17																				
DELTA-P	18.5	4.1	2.3	0.2	-5.5#	-1.2	1.1	22.7#	-4.2#	18.8#	7.2*	-1.9	-5.2#	16.3#	0.6	-1.5	2.4	3.0	-5.2*	-7.5#
STD ERR OF DP		2.2	1.7	1.3	1.7	0.9	0.8	3.2	0.7	3.2	2.9	1.3	0.9	4.7	3.3	1.5	2.8	2.7	2.3	2.5
STD ERR OF P	1.0	2.5	2.0	1.3	2.1	1.2	1.4	3.6	0.9	3.6	3.1	1.6	1.0	4.9	3.5	1.7	2.8	2.8	2.3	2.4

EXERCISE: R005

Part A. According to the graph that shows the monthly production of Company X, the greatest drop in production from one month to the next occurred between what two months?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 21 AGE: Ad TEXT: Other Unacceptable																				
DELTA-P	21.2	3.8	-0.9	-0.7	-1.4	-3.8#	3.6#	16.4#	-2.7#	8.4#	4.4	-0.9	-9.6#	6.1	2.2	0.2	0.3	-0.2	4.7	-9.7#
STD ERR OF DP		2.0	2.1	2.3	1.8	1.0	0.9	3.8	0.6	1.5	3.2	2.0	1.7	3.5	3.8	1.7	3.7	4.1	3.4	2.2
STD ERR OF P	1.2	2.1	2.4	2.9	1.9	1.5	1.6	4.2	1.2	1.8	3.3	2.5	1.6	3.8	3.8	2.3	3.9	4.3	3.7	1.9
RESPONSE: 22 AGE: 13 TEXT: August to October																				
DELTA-P	3.2	-1.1	-0.9	-0.5	2.8#	0.7	-0.7	-1.9#	0.4#	-0.4	-1.6	-0.1	0.7	-2.5#	-0.5	0.0	-0.6	-0.6	0.3	3.1
STD ERR OF DP		0.7	0.5	0.5	0.7	0.4	0.4	0.7	0.1	1.4	0.9	0.5	0.5	0.7	1.1	0.5	0.7	1.2	0.6	1.5
STD ERR OF P	0.3	0.8	0.5	0.5	0.9	0.5	0.6	0.7	0.4	1.5	0.8	0.6	0.6	0.6	1.1	0.6	0.7	1.3	0.7	1.7
AGE: 17																				
DELTA-P	4.2	-1.8*	-0.0	-0.1	1.6	0.4	-0.4	-0.1	-0.1	-2.4*	1.2	0.8	-0.5	-0.3	2.1	-1.2	-1.6	0.7	-0.9	3.6*
STD ERR OF DP		0.8	0.9	0.9	1.0	0.6	0.5	1.8	0.4	1.1	1.2	1.0	0.5	1.6	2.1	0.6	0.9	2.8	1.3	1.6
STD ERR OF P	0.5	0.8	0.9	1.1	1.3	0.8	0.8	2.0	0.6	1.0	1.3	1.4	0.6	1.6	2.2	0.6	0.8	3.1	1.3	1.8
AGE: Ad																				
DELTA-P	5.0	-1.1	2.0	-0.5	-0.6	0.8	-0.8	-2.0	0.1	-1.0	0.4	1.7	-0.7	3.0	-2.1	0.2	-1.7	-1.0	-2.3	2.5
STD ERR OF DP		1.0	1.0	0.9	0.7	0.5	0.4	1.3	0.2	0.8	1.3	1.0	1.0	2.4	1.1	0.8	1.4	1.3	1.2	1.6
STD ERR OF P	0.5	1.1	1.3	1.1	0.8	0.7	0.7	1.3	0.6	1.0	1.4	1.2	1.0	2.5	1.1	1.0	1.4	1.2	1.2	1.8
RESPONSE: 23 AGE: 13 TEXT: January to December																				
DELTA-P	1.8	-0.1	0.1	0.7	-0.9*	-0.7#	0.7*	3.8#	-0.6#	0.5	1.8	-0.5	-0.8*	-0.2	-0.2	0.3	1.5	-0.3	-1.0	-1.1*
STD ERR OF DP		0.5	0.6	0.6	0.4	0.3	0.3	1.4	0.2	1.4	1.1	0.5	0.4	0.9	1.0	0.5	1.2	0.8	0.6	0.5
STD ERR OF P	0.3	0.5	0.7	0.8	0.4	0.3	0.5	1.6	0.3	1.5	1.2	0.4	0.3	0.9	1.0	0.5	1.4	0.9	0.6	0.5
AGE: 17																				
DELTA-P	0.4	0.6	-0.4#	-0.1	0.0	-0.1	0.1	1.5*	-0.3*	0.4	1.0	-0.1	-0.2	0.0	0.4	-0.3	-0.1	0.6	0.3	-0.1
STD ERR OF DP		0.4	0.1	0.2	0.2	0.1	0.1	0.8	0.1	0.5	0.7	0.2	0.1	0.2	0.5	0.2	0.2	0.7	0.5	0.2
STD ERR OF P	0.1	0.5	0.0	0.2	0.2	0.2	0.2	0.9	0.1	0.5	0.8	0.2	0.1	0.2	0.6	0.1	0.2	0.7	0.5	0.2
AGE: Ad																				
DELTA-P	0.4	[illegible]	-0.4*	-0.1	0.7	0.1	-0.1	2.1	-0.2	0.1	0.6	0.0	-0.4*	3.8*	-0.4*	-0.3	-0.4*	-0.4*	-0.4*	-0.4*
STD ERR OF DP		[illegible]	0.2	0.3	0.5	0.2	0.2	1.2	0.1	0.3	0.5	0.3	0.2	1.7	0.2	0.2	0.2	0.2	0.2	0.2
STD ERR OF P	[illegible]	[illegible]	0.0	0.3	0.6	0.3	0.2	1.3	0.2	0.4	0.6	0.4	0.0	1.9	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 39 AGE: 13 TEXT: [illegible] Know.																				
DELTA-P	[illegible]	[illegible]	[illegible]	-0.6	0.0	0.6	-0.7	4.0	-1.2#	4.2	-1.2	-0.4	-2.5#	8.3*	1.2	-1.1	0.3	-2.0*	0.3	-2.7*
STD ERR OF DP		[illegible]	1.1	1.1	1.3	0.5	0.5	2.1	0.4	2.5	1.5	0.9	0.6	3.4	1.5	0.7	1.4	0.9	1.8	1.2
STD ERR OF P	[illegible]	[illegible]	[illegible]	1.2	1.5	0.8	0.7	2.4	0.5	2.7	1.4	1.0	0.5	3.7	1.5	0.7	1.6	1.0	2.0	1.0
AGE: 17																				
DELTA-P	[illegible]	0.1	0.2	-0.2	-0.1	-0.7#	0.7#	2.6*	-0.6#	2.6*	4.5#	-0.6	-1.5#	1.7*	0.2	-0.3	2.1	-1.0	-1.3#	-0.6
STD ERR OF DP		0.4	0.3	0.5	0.6	0.3	0.3	1.3	0.2	1.1	1.5	0.4	0.3	0.8	0.5	0.4	1.4	0.6	0.3	0.3
STD ERR OF P	0.3	0.3	0.3	0.6	0.8	0.3	0.5	1.5	0.2	1.2	1.7	0.4	0.2	0.9	0.5	0.4	1.6	0.6	0.2	0.2
AGE: Ad																				
DELTA-P	3.8	1.9	-2.3*	-1.6	2.5	0.4	-0.4	8.9#	-1.2#	2.5*	-0.2	-2.1*	-3.1#	5.8*	2.8	-0.7	-0.8	4.3	-2.2	-3.8#
STD ERR OF DP		2.0	1.0	1.1	2.1	0.8	0.8	2.7	0.3	1.2	1.3	0.9	0.9	2.5	2.4	0.9	1.6	5.4	1.1	0.9
STD ERR OF P	0.9	2.2	0.6	1.0	2.8	1.6	0.6	3.2	0.9	1.5	1.5	0.5	0.4	2.9	2.5	0.9	1.7	6.0	0.8	0.0

EXERCISE: RQ05

Part B. According to the graph, the difference between maximum and minimum monthly production of Company X during 1971 was approximately how many units?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.3	-0.3	0.3	0.2	-0.2	-0.3	0.3	4.2*	-0.9#	-1.5	-0.1	1.4	-1.9#	6.5#	-2.2*	-0.4	-2.0#	2.0	1.1	-1.6
STD ERR OF DP		1.0	1.1	1.1	0.8	0.3	0.3	2.0	0.4	1.0	1.4	0.7	0.5	2.0	0.9	0.7	0.7	2.1	1.1	0.9
STD ERR OF P	0.6	1.1	1.3	1.3	0.7	0.6	0.7	2.4	0.4	0.9	1.6	1.0	0.4	2.2	0.8	0.9	0.5	2.3	1.3	1.0
AGE: 17																				
DELTA-P	3.5	0.9	-0.3	0.0	-0.5	0.5	-0.5	6.6#	-1.6#	3.1	2.6*	-0.6	-1.3*	4.7*	-2.3#	-0.8	0.1	2.0	1.1	-2.8#
STD ERR OF DP		1.0	0.9	1.2	1.0	0.5	0.5	2.2	0.5	1.9	1.3	0.6	0.6	2.1	0.9	0.8	2.5	1.7	1.5	0.7
STD ERR OF P	0.6	1.1	0.8	1.6	1.1	1.0	0.6	2.6	0.4	2.1	1.5	0.9	0.6	2.3	0.7	0.9	2.8	1.9	1.6	0.5
AGE: Ad																				
DELTA-P	0.5	0.3	0.1	-0.5#	0.2	-0.3	0.2	1.2	-0.2*	0.6	-0.5#	-0.2	-0.5#	0.6	1.5	-0.3	-0.5#	0.0	0.6	-0.5#
STD ERR OF DP		0.4	0.3	0.2	0.3	0.1	0.1	0.8	0.1	0.3	0.2	0.2	0.2	0.7	1.1	0.2	0.2	0.5	0.7	0.2
STD ERR OF P	0.2	0.5	0.3	0.0	0.4	0.2	0.3	0.9	0.1	0.4	0.0	0.2	0.0	0.7	1.2	0.1	0.0	0.5	0.8	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	6.9	-1.1	-1.8	-0.9	4.1#	0.7	-0.8	-6.3#	1.4#	-6.9#	-3.3#	-0.9	4.6#	-5.8#	-0.9	-1.3	1.7	-2.0	2.2	4.8#
STD ERR OF DP		1.6	0.9	0.9	1.0	0.6	0.7	0.8	0.3	0.7	1.2	0.8	0.8	1.0	1.5	0.8	2.0	1.4	1.5	1.9
P-VALUE	6.9	5.8	5.1	6.0	11.0	7.6	6.1	0.6	8.3	-0.0	3.5	6.0	11.5	1.1	6.0	5.6	8.6	4.9	9.1	11.7
STD ERR OF P	0.7	2.0	0.9	0.9	1.0	1.0	0.9	0.4	0.8	0.0	1.1	0.9	1.2	0.7	1.7	1.0	2.4	1.3	1.5	2.0
AGE: 17																				
DELTA-P	20.6	-0.6	0.3	-0.2	0.4	2.7*	-2.5*	-10.8#	2.5#	-15.1#	-9.8#	0.4	6.3#	-12.0#	-4.0	-1.1	5.7*	2.9	0.8	5.9
STD ERR OF DP		1.9	1.9	1.9	1.9	1.1	1.1	1.9	0.4	1.7	2.2	1.5	1.1	2.6	3.8	1.3	2.7	2.8	3.3	3.3
P-VALUE	20.6	20.1	20.9	20.5	21.0	23.3	18.2	9.9	23.1	5.5	10.8	21.0	27.0	8.7	16.7	19.5	26.4	23.6	21.5	26.6
STD ERR OF P	1.1	2.0	2.1	2.3	2.2	1.7	1.4	2.0	1.2	1.6	2.2	1.9	1.6	2.7	3.9	1.0	2.9	3.0	3.6	3.8
AGE: Ad																				
DELTA-P	25.2	-0.1	1.9	1.2	-3.1	3.5#	-3.3	-15.6#	1.9#	-9.2#	-4.7*	1.6	12.2#	-7.1*	-4.8	1.4	0.9	-2.4	3.1	1.7
STD ERR OF DP		2.7	2.2	1.9	2.4	1.0	0.9	2.2	[illegible]	1.8	2.0	1.5	1.8	3.4	2.8	1.4	4.1	4.5	3.4	3.4
P-VALUE	25.2	25.1	27.1	26.4	22.1	28.7	21.9	9.6	27.1	16.0	20.5	26.7	37.4	18.1	20.4	26.6	26.0	22.8	28.3	26.9
STD ERR OF P	1.3	3.1	2.5	2.1	2.9	1.7	1.5	2.2	1.4	2.0	2.1	1.9	2.5	3.6	2.9	1.9	4.5	4.5	3.6	3.6
RESPONSE: 10 AGE: 13	TEXT: A number from 2800 to 3200																			
DELTA-P	6.1	-1.4	-1.6	-1.0	4.3#	0.7	-0.7	-5.6#	1.4#	-6.1#	-2.5*	-1.3	4.2#	-5.0#	-1.6	-1.1	1.4	-1.5	2.7	3.6
STD ERR OF DP		1.2	0.8	0.8	0.9	0.7	0.7	0.7	0.2	0.6	1.1	0.7	0.7	0.9	1.4	0.7	1.5	1.4	1.5	1.9
STD ERR OF P	0.5	1.4	0.9	0.9	1.0	0.9	0.8	0.4	0.7	0.0	1.1	0.7	1.0	0.7	1.5	0.9	1.7	1.3	1.6	2.1
AGE: 17																				
DELTA-P	17.6	-1.1	1.0	-0.3	0.3	-1.8	-1.7	-10.3#	2.4#	-12.0#	-8.3#	1.0	4.9#	-10.0#	-3.3	-0.1	2.6	0.6	2.4	4.4
STD ERR OF DP		1.6	2.0	1.8	1.5	1.1	1.0	1.8	0.4	1.8	1.9	1.6	1.0	2.3	3.2	1.2	2.1	2.6	2.9	3.4
STD ERR OF P	1.0	1.7	2.4	2.3	1.6	1.6	1.3	1.7	1.1	1.6	2.0	1.9	1.5	2.3	3.4	1.1	2.2	2.8	3.3	3.8
AGE: Ad																				
DELTA-P	19.6	-1.5	2.5	1.6	-3.1	2.4#	-2.2#	-10.4#	1.1*	-6.7#	-4.6#	1.3	9.3#	-3.6	-3.7	-0.0	0.7	-0.3	1.3	3.2
STD ERR OF DP		2.0	1.8	1.6	1.7	1.0	0.9	2.2	0.4	1.6	1.8	1.5	1.8	3.3	2.7	1.2	2.8	3.7	2.8	3.0
STD ERR OF P	1.0	2.3	2.2	1.8	2.0	1.5	1.3	2.3	1.1	1.6	1.8	1.8	2.3	3.5	2.8	1.6	3.0	3.9	3.0	3.2
RESPONSE: 11 AGE: 13	TEXT: A number from 3201 to 3500																			
DELTA-P	0.1	-0.1#	-0.1#	0.2#	-0.1#	-0.0	0.0	-0.1#	-0.0	-0.1#	-0.1#	0.1	0.0	-0.1#	0.1	-0.1#	-0.1#	0.2	-0.1#	0.2
STD ERR OF DP		0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.3	0.0	0.3
STD ERR OF P	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.3	0.0	0.3
AGE: 17																				
DELTA-P	0.5	0.1	0.3	-0.1	-0.3	0.4*	-0.3*	0.5	-0.2	-0.5#	-0.5#	-0.4#	0.3	-0.5#	0.4	-0.1	0.7	1.2	-0.5#	-0.5#
STD ERR OF DP		0.3	0.4	0.2	0.2	0.2	0.2	0.5	0.1	0.2	0.2	0.2	0.2	0.2	0.7	0.2	0.7	0.9	0.2	0.2
STD ERR OF P	0.2	0.4	0.5	0.3	0.2	0.3	0.1	0.5	0.1	0.0	0.0	0.0	0.3	0.0	0.7	0.3	0.8	0.9	0.0	0.0

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
EXERCISE: RQ05																				
Part B. According to the graph, the difference between maximum and minimum monthly production of Company X during 1971 was approximately how many units?																				
RESPONSE: 11 AGE: Ad	TEXT: A number from 3201 to 3500																			
DELTA-P	0.4	0.1	0.3	-0.3	-0.1	-0.1	0.1	-0.0	-0.1	-0.4*	0.1	0.0	0.4	-0.4*	-0.4*	-0.1	0.3	-0.4*	0.5	0.4
STD ERR OF DP		0.5	0.4	0.2	0.3	0.2	0.2	0.4	0.1	0.2	0.4	0.3	0.5	0.2	0.2	0.2	0.6	0.2	0.9	0.7
STD ERR OF P	0.2	0.5	0.5	0.2	0.2	0.2	0.3	0.4	0.2	0.0	0.5	0.3	0.6	0.0	0.0	0.2	0.7	0.0	1.0	0.8
RESPONSE: 12 AGE: 13	TEXT: A number from 2500 to 2799																			
DELTA-P	0.7	0.3	-0.1	-0.1	-0.1	0.1	-0.1	-0.7#	0.1	-0.7#	-0.7#	0.3	0.3	-0.7#	0.6	-0.1	0.3	-0.7#	-0.4	1.0
STD ERR OF DP		0.5	0.3	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.2	0.4	0.3	0.2	0.7	0.3	0.7	0.2	0.3	0.9
STD ERR OF P	0.2	0.7	0.3	0.4	0.4	0.3	0.3	0.0	0.3	0.0	0.0	0.5	0.4	0.0	0.8	0.3	0.8	0.0	0.3	1.0
AGE: 17																				
DELTA-P	2.6	0.4	-1.0	0.3	0.3	0.5	-0.4	-0.9	0.3	-2.6#	-1.0	-0.2	1.1*	-1.5	-1.0	-0.9	2.5*	1.2	-1.1	2.0
STD ERR OF DP		0.9	0.6	0.5	0.9	0.4	0.3	1.0	0.2	0.4	0.7	0.7	0.5	0.8	0.9	0.5	1.2	1.6	0.8	1.6
STD ERR OF P	0.4	1.0	0.6	0.5	1.2	0.7	0.4	1.1	0.5	0.0	0.7	0.8	0.8	0.7	0.8	0.5	1.3	1.7	0.7	1.9
AGE: Ad																				
DELTA-P	5.1	1.4	-1.0	-0.1	0.0	1.2*	-1.2*	-5.1#	1.0#	-2.1#	-0.1	0.2	2.5*	-3.0#	-0.7	1.5	-0.1	-1.7	1.4	-1.9
STD ERR OF DP		1.3	1.1	1.1	1.2	0.5	0.5	0.7	0.2	0.8	1.2	0.9	1.1	1.2	1.7	0.8	2.1	1.3	1.7	1.2
STD ERR OF P	0.7	1.5	1.2	1.3	1.4	1.0	0.7	0.0	0.8	0.9	1.4	1.1	1.5	1.1	1.8	1.2	2.3	1.2	1.8	1.1
RESPONSE: 20 AGE: 13	TEXT: A number from 2.8 to 3.2																			
DELTA-P	17.6	-0.8	-2.2	1.7	1.3	0.3	-0.3	-8.7#	2.0#	0.9	-4.9*	-3.0*	5.3#	-8.5#	1.4	0.6	1.8	-3.0	-2.5	6.7#
STD ERR OF DP		1.9	2.0	1.8	2.3	0.8	0.9	2.4	0.4	2.8	2.2	1.4	0.9	2.1	2.4	1.8	2.7	3.3	2.4	2.2
STD ERR OF P	1.1	2.2	2.3	2.0	2.8	1.4	1.5	2.4	1.3	2.7	2.4	2.0	1.6	2.1	2.4	2.1	3.0	3.7	2.8	2.2
AGE: 17																				
DELTA-P	25.1	-3.6	-0.5	-1.7	5.1#	-0.9	0.9	-14.3#	3.0#	-9.6#	-9.9#	-2.2	6.6#	-7.4#	7.2*	-0.1	-2.2	-6.6*	2.4	5.4*
STD ERR OF DP		2.1	1.2	1.6	1.5	1.1	1.0	1.4	0.5	2.6	2.1	1.7	1.2	2.3	3.4	1.4	2.3	2.8	3.7	2.7
STD ERR OF P	0.9	2.5	1.0	2.1	1.6	1.5	1.2	1.5	1.0	2.8	2.1	2.0	1.5	2.3	3.6	1.5	2.4	2.9	4.1	2.9
AGE: Ad																				
DELTA-P	21.3	-3.1	4.1*	1.6	-3.3	0.5	-0.4	-11.2#	2.1#	-2.9	-1.7	1.7	3.5	-3.8	-3.1	-1.9	0.6	2.8	-1.4	8.5#
STD ERR OF DP		2.0	1.7	1.7	2.0	1.1	1.1	2.9	0.5	1.8	2.2	1.8	1.8	3.6	3.7	1.5	2.9	4.5	2.9	3.0
STD ERR OF P	1.1	2.3	1.9	2.0	2.4	1.6	1.4	2.9	1.2	2.2	2.4	2.0	2.1	3.7	3.7	1.6	3.1	4.9	3.2	3.4
RESPONSE: 21 AGE: 13	TEXT: A number from 3.201 to 3.5																			
DELTA-P	1.1	0.1	-0.1	-0.4	0.4	-0.1	0.1	-0.7*	0.1	0.4	-0.1	1.0*	-0.5*	-1.0#	0.4	0.1	-0.2	0.1	-0.2	0.6
STD ERR OF DP		0.4	0.4	0.3	0.6	0.2	0.3	0.4	0.1	0.9	0.6	0.4	0.2	0.3	0.7	0.4	0.5	0.5	0.4	0.9
STD ERR OF P	0.2	0.5	0.4	0.2	0.7	0.3	0.4	0.3	0.3	0.9	0.7	0.6	0.2	0.1	0.7	0.5	0.5	0.5	0.5	0.9
AGE: 17																				
DELTA-P	1.2	-0.4	0.3	-0.2	0.3	-0.1	0.1	0.2	-0.1	-0.4	-0.3	-0.4	0.3	0.3	-0.2	0.4	0.0	-0.4	-1.1#	0.5
STD ERR OF DP		0.4	0.5	0.4	0.4	0.2	0.2	0.5	0.1	0.7	0.4	0.4	0.3	0.6	0.7	0.5	0.7	0.5	0.3	0.8
STD ERR OF P	0.2	0.4	0.6	0.5	0.5	0.4	0.3	0.5	0.3	0.7	0.4	0.5	0.4	0.6	0.7	0.6	0.7	0.5	0.1	0.8
AGE: Ad																				
DELTA-P	0.8	-0.2	0.0	0.0	0.1	-0.0	0.0	-0.8#	0.1#	-0.4	-0.1	-0.0	0.6	0.1	0.1	0.1	-0.1	-0.8#	-0.3	0.4
STD ERR OF DP		0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.0	0.3	0.4	0.3	0.4	0.8	0.7	0.2	0.3	0.2	0.5	0.6
STD ERR OF P	0.2	0.2	0.3	0.3	0.5	0.3	0.3	0.0	0.2	0.2	0.5	0.4	0.5	0.8	0.7	0.3	0.3	0.0	0.5	0.7
RESPONSE: 22 AGE: 13	TEXT: A number from 2.5 to 2.799																			
DELTA-P	2.1	0.0	-1.5#	1.6*	-0.2	0.2	-0.2	-1.7#	0.3*	-1.7#	-1.1	-1.4#	2.0#	-2.0#	-0.0	-0.2	1.3	-0.4	-1.4*	2.0
STD ERR OF DP		0.7	0.4	0.7	0.5	0.4	0.4	0.4	0.1	0.5	1.0	0.4	0.5	0.4	1.8	0.5	0.7	1.1	0.7	1.3
STD ERR OF P	0.4	0.9	0.3	0.9	0.5	0.6	0.5	0.3	0.4	0.4	1.0	0.3	0.7	0.1	1.9	0.5	0.8	1.1	0.7	1.3

```
                                    NATION |                REGION               |      SEX        |      RACE       |      PARENTAL EDUCATION          |               SIZE-AND-TYPE OF COMMUNITY
                                           | SOUTH                       NORTH   |                 |                 |          SOME    GRAD    POST    |  LOW   EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                                    _______|  EAST    WEST  CENTRAL  EAST   |  MALE   FEMALE  | BLACK   WHITE   | NO HS    HS      HS      HS    | METRO  RURAL  PLACES  CITY BIG CTY FRINGE METRO

EXERCISE: RQ05

Part B.  According to the graph, the difference between maximum and minimum monthly production of Company X during 1971 was approximately how many units?


RESPONSE:  22    AGE: 17          TEXT:  A number from 2.5 to 2.799

    DELTA-P                         2.9     -0.3    0.1    0.1   -0.0      -0.5    0.4      -1.5    0.5#     -1.6   -1.7*   0.3    0.7      -0.6   -0.0    1.4*   0.6   -0.1   -2.1#  -1.2
    STD ERR OF DP                            0.7    0.8    0.5    0.7       0.3    0.3       0.8    0.1      1.0    0.7    0.6    0.4       1.0    0.7    0.6    1.0    1.2    0.6    1.0
    STD ERR OF P                    0.4      0.7    1.0    0.5    0.9       0.5    0.5       0.7    0.5      0.9    0.7    0.7    0.7       0.9    0.6    0.9    1.1    1.3    0.6    1.0

                    AGE: Ad

    DELTA-P                         5.7     -2.5#   1.7   -0.5    0.8      -0.2    0.2      -2.5    0.4      -1.0   -3.4#   0.8    2.5*     -3.1#  -2.0   -0.1    2.4    0.5   -1.7    2.5
    STD ERR OF DP                            0.9    1.0    0.9    1.1       0.6    0.6       1.6    0.2      0.7    0.8    1.0    1.2       1.2    1.5    0.8    1.6    2.5    1.5    2.2
    STD ERR OF P                    0.6      0.9    1.2    1.0    1.3       0.8    0.8       1.8    0.6      0.7    0.8    1.3    1.3       1.2    1.5    1.0    1.7    2.7    1.5    2.3

RESPONSE:  23    AGE: 13          TEXT:  Other Unacceptable

    DELTA-P                        47.4      3.5    3.7   -2.6   -4.7       1.0   -1.0       7.7#  -1.9#      1.2   10.8#   2.1   -4.2*      2.7    7.0#   3.4   -3.9   -0.2   -1.8   -9.2#
    STD ERR OF DP                            3.5    2.1    2.4    2.5       1.2    1.2       3.1    0.5      4.5    3.3    1.9    1.7       4.0    2.0    2.3    4.7    4.2    2.9    2.7
    STD ERR OF P                    1.5      4.4    1.9    2.7    2.7       2.0    1.9       3.2    1.8      4.5    3.7    2.3    2.5       4.1    1.9    2.8    5.2    4.5    3.1    2.7

                    AGE: 17

    DELTA-P                        35.1     -0.8   -1.3    2.5   -1.0       2.5   -2.3       8.7#  -2.0#     17.1#   5.3    1.0   -7.0#      9.2#   0.2   -0.3   -4.4    4.3    0.6   -5.8*
    STD ERR OF DP                            2.9    2.6    1.8    2.5       1.3    1.2       3.2    0.6      3.8    3.6    1.8    1.4       3.2    4.1    2.0    3.2    3.4    3.7    2.8
    STD ERR OF P                    1.4      3.3    3.0    1.8    3.1       1.9    1.9       3.6    1.5      3.6    3.7    2.4    2.0       3.5    4.2    2.4    3.4    3.4    4.1    3.0

                    AGE: Ad

    DELTA-P                        30.4     -0.4   -3.5*   2.1    1.4       1.3   -1.2      15.0#  -2.1#      4.7*   6.9*   0.9   -8.9#      2.0    6.1    0.2   -2.2    0.2    1.2   -4.4
    STD ERR OF DP                            2.2    1.7    1.8    1.9       1.3    1.2       3.3    0.5      2.2    3.0    1.7    1.9       3.6    3.9    1.3    2.7    4.1    3.3    3.4
    STD ERR OF P                    1.1      2.4    1.9    2.1    2.2       1.8    1.5       3.4    1.1      2.4    3.4    2.0    2.1       3.7    4.0    1.5    2.8    4.3    3.7    3.6

RESPONSE:  39    AGE: 13          TEXT:  I Don't Know.

    DELTA-P                        21.5     -1.4    1.6    0.4   -0.8      -1.8    1.9       5.5   -0.9       7.7   -1.2    0.8   -5.2#      8.1#  -5.7*  -2.1    1.2    3.5    2.6   -3.2
    STD ERR OF DP                            2.2    2.0    2.0    2.8       1.0    1.1       2.8    0.5      4.4    2.9    1.8    1.1       3.2    2.7    1.6    2.1    3.3    3.4    2.9
    STD ERR OF P                    1.3      2.6    2.1    2.2    3.4       1.5    1.8       3.3    1.3      4.5    3.2    2.4    1.4       3.5    2.8    2.0    2.2    3.7    3.9    3.0

                    AGE: 17

    DELTA-P                        11.5      4.7#   1.3   -0.6   -4.3#     -4.2#   3.9#     11.1#  -2.3#      6.6#  13.7#  -0.5   -5.5#      5.8   -0.9    0.5    0.1   -2.1   -1.7   -2.0
    STD ERR OF DP                            1.3    1.9    1.5    1.2       0.7    0.6       2.3    0.5      2.0    2.9    1.2    0.9       3.6    2.2    1.2    2.3    1.9    2.4    2.3
    STD ERR OF P                    0.9      1.1    2.3    1.9    1.3       0.9    1.1       2.6    0.8      1.9    3.3    1.4    1.1       3.9    2.1    1.2    2.5    2.1    2.7    2.4

                    AGE: Ad

    DELTA-P                        16.2      6.0*  -4.3*  -4.1    3.9      -4.8#   4.5#     13.8#  -2.3#      8.3#   3.6   -4.7#  -9.4#     11.5#   2.1    0.6   -1.0   -0.3   -1.5   -8.2#
    STD ERR OF DP                            2.6    1.8    2.2    2.4       1.2    1.0       3.7    0.6      1.6    2.4    1.3    1.5       3.8    3.8    1.6    3.3    5.1    3.5    2.2
    STD ERR OF P                    1.3      3.0    1.8    2.6    2.9       1.7    1.6       4.1    1.3      1.9    3.0    1.6    1.2       4.2    3.7    2.1    3.5    5.6    3.7    2.0
```

RQ06
OBJ IV

The last five years' batting averages for six baseball players and the average of the team for which they play are shown below.

	1967	1968	1969	1970	1971
Team Average	220	212	231	224	228
Players					
1. Lehmann	260	254	295	265	261
2. Finley	219	224	216	221	218
3. Hlavaty	248	251	249	246	253
4. Heimer	262	258	268	264	270
5. Lee	275	280	290	279	283
6. Womer	289	315	295	304	320

A. Which player had the most CONSISTENT batting average between 1967 and 1971?

○ Lehmann

○ Finley

● Hlavaty

○ Heimer

○ Lee

○ Womer

○ I don't know

RQ06
OBJ IV

Report #: RQ06

RAFF #: J30040-36

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple part multiple choice using table
Scoring Type: Machine
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		10-27	02-20
National P-value:			
	RQ06A	49.96	53.75
	RQ06B	49.83	70.37

Timing: (in seconds)			
	Introduction:	13	13
	Stimulus:	16	18
	Response:	45	*
	I don't know:	5	*
	Pause:	6	*
	Turn page:	(5)	*
RQ06A	Part total:	79**	*
	Stimulus:	13	17
	Response:	20	*
	I don't know:	3	*
	Pause:	5	*
RQ06B	Part total:	49	*
RQ06	Exercise total:	132	*

*Time not limited by paced tape.

**Time to turn page is not included in total times.

RQ06
OBJ IV

(Continued)

B. Which player's batting average agrees most CLOSELY with the batting average of his team in all 5 years?

○ Lehmann

● Finley

○ Hlavaty

○ Heimer

○ Lee

○ Womer

○ I don't know

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EXERCISE: RQ06

Part A. According to the table giving the team average and averages for each of 6 baseball players, which player had the most CONSISTENT batting average between 1967 and 1971?

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	0.2	-0.1	-0.2*	-0.1	0.4	-0.0	0.0	0.7*	-0.2*	-0.2*	-0.0	-0.0	-0.2*	1.2	-0.2*	-0.1	-0.2*	0.4	-0.2*	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.4	0.1	0.1	0.2	0.1	0.1	0.7	0.1	0.1	0.1	0.6	0.1	0.2
STD ERR OF P	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.4	0.0	0.0	0.2	0.1	0.0	0.7	0.0	0.1	0.0	0.6	0.0	0.2
AGE: Ad																				
DELTA-P	0.2	0.8	-0.2	-0.2	-0.2	0.2	-0.2	-0.2	0.0	-0.2	-0.2	0.5	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	1.7	-0.2
STD ERR OF DP		0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	1.6	0.2
STD ERR OF P	0.2	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
RESPONSE: 01 AGE: 17	TEXT: Lehmann																			
DELTA-P	2.5	0.4	0.1	-0.7	0.4	0.6	-0.5	0.4	-0.4*	-0.8	0.3	0.2	-1.0*	0.9	-0.9	0.2	1.2	-0.6	-0.4	-1.3
STD ERR OF DP		0.7	0.4	0.5	0.6	0.4	0.4	0.8	0.2	1.1	0.8	0.5	0.4	1.0	1.0	0.4	0.9	1.1	0.6	0.8
STD ERR OF P	0.3	0.8	0.5	0.6	0.7	0.5	0.5	0.9	0.3	1.1	0.9	0.5	0.4	1.0	1.1	0.5	0.9	1.2	0.6	0.9
AGE: Ad																				
DELTA-P	3.5	-1.1	0.8	-0.4	0.6	0.1	-0.1	2.0	-0.4	2.3*	0.9	-1.0	-1.3	0.0	3.1	-0.4	-0.3	1.7	1.4	-2.7*
STD ERR OF DP		1.0	0.8	0.9	0.9	0.6	0.5	1.7	0.2	1.0	1.2	0.6	0.8	1.2	1.8	0.5	1.6	1.9	1.6	0.7
STD ERR OF P	0.5	1.1	1.0	1.1	1.0	0.9	0.6	1.8	0.5	1.3	1.3	0.7	0.7	1.2	2.0	0.6	1.8	1.9	1.7	0.6
RESPONSE: 02 AGE: 17	TEXT: Finley																			
DELTA-P	9.7	-0.8	0.3	0.8	-1.5	-0.3	0.3	-0.4	0.5	2.6	-2.2	-0.3	-0.1	-0.4	1.8	-0.1	0.7	2.0	-0.9	-1.6
STD ERR OF DP		1.2	1.1	1.2	1.5	0.7	0.7	2.3	0.4	2.6	1.5	1.2	0.9	2.4	1.8	0.9	1.8	3.8	1.5	2.2
STD ERR OF P	0.7	1.3	1.1	1.5	1.8	1.0	1.1	2.5	0.8	2.7	1.7	1.4	1.2	2.6	1.8	1.1	2.0	4.1	1.6	2.3
AGE: Ad																				
DELTA-P	13.0	-0.8	-1.8	-0.6	3.4	-3.3*	3.1*	-2.0	0.3	-0.5	4.2	-0.1	-2.6*	-0.2	-3.2	1.0	3.9	-0.9	-1.8	-2.0
STD ERR OF DP		1.2	1.5	1.4	2.0	1.0	0.9	2.0	0.4	1.5	2.4	1.6	1.3	3.0	2.0	1.1	3.0	3.0	2.1	2.2
STD ERR OF P	0.9	1.1	1.7	1.6	2.5	1.0	1.5	2.2	1.0	1.6	2.3	2.0	1.5	3.2	2.0	1.5	3.2	3.1	2.0	2.4
RESPONSE: 03* AGE: 17	TEXT: Hlavaty																			
DELTA-P	50.0	-10.2*	-1.1	7.8*	0.9	6.8*	-6.2*	-30.5*	6.7*	-24.5*	-15.6*	-1.3	14.9*	-25.0*	-9.3	-1.3	4.8	-5.4	7.6*	17.1*
STD ERR OF DP		2.8	2.3	2.6	2.0	1.0	1.1	3.0	0.8	2.7	2.4	1.7	1.4	3.4	5.3	2.0	2.9	6.3	3.1	3.9
P-VALUE	50.0	39.8	48.9	57.8	50.9	56.7	43.8	19.5	56.6	25.5	34.4	48.7	64.9	25.0	40.7	48.7	54.7	44.6	57.6	67.0
STD ERR OF P	1.4	3.2	2.5	3.3	2.0	1.8	1.7	3.1	1.5	3.1	2.6	2.0	1.8	3.6	5.3	2.6	3.1	6.3	3.1	4.0
AGE: Ad																				
DELTA-P	53.8	-7.2*	4.0	2.0	-0.3	8.7*	-8.1*	-32.7*	5.8*	-15.6*	-6.9	6.3*	17.4*	-21.1*	-2.1	-0.9	-2.4	-1.8	2.5	19.4*
STD ERR OF DP		3.4	3.1	2.6	2.3	1.3	1.3	3.1	0.7	2.4	3.5	1.8	2.0	4.7	4.4	1.9	4.8	4.9	4.8	3.5
P-VALUE	53.8	46.5	57.7	55.7	53.5	62.5	45.6	21.1	59.6	38.2	46.9	60.1	71.2	32.7	51.7	52.9	51.4	51.9	56.3	73.2
STD ERR OF P	1.7	3.8	4.1	3.0	2.2	2.0	2.2	2.8	1.6	2.9	3.5	2.7	2.2	4.5	4.4	2.4	5.4	5.1	5.2	3.6
RESPONSE: 04 AGE: 17	TEXT: Heimer																			
DELTA-P	13.2	-0.4	-1.8	-1.3	3.7*	-2.1*	2.0*	0.0	0.4	-5.1*	1.1	3.0*	-0.9	1.7	-2.3	-0.6	-1.7	1.8	2.2	-0.3
STD ERR OF DP		1.7	1.2	1.4	1.3	1.	0.9	2.0	0.4	2.2	2.4	1.3	1.1	2.6	2.8	1.0	1.8	3.2	1.7	2.3
STD ERR OF P	0.7	1.3	1.3	1.7	1.5	1.2	1.2	2.1	0.9	2.3	2.5	1.6	1.2	2.7	3.0	1.2	2.0	3.4	1.8	2.4
AGE: Ad																				
DELTA-P	7.9	-1.1	-0.5	1.8	-0.7	-1.5*	1.4*	-1.9	0.4	-0.3	0.1	0.2	-0.1	-2.1	-1.5	1.3	-2.4	2.6	0.6	-1.6
STD ERR OF DP		0.9	0.9	1.4	1.1	0.7	0.7	1.8	0.3	1.2	1.9	1.0	1.2	1.4	1.9	0.9	1.8	2.4	1.9	1.7
STD ERR OF P	0.7	0.7	0.9	1.8	1.2	0.9	1.1	1.7	0.8	1.3	2.0	1.3	1.2	1.1	2.0	1.3	2.0	2.5	1.9	1.9
RESPONSE: 05 AGE: 17	TEXT: Lee																			
DELTA-P	4.3	2.3*	0.8	-1.2*	-1.4*	-0.7	0.7	4.3*	-1.0*	2.0	1.4	0.9	-2.1*	1.7	4.6	0.7	-1.5	0.1	-1.7	-2.5*
STD ERR OF DP		1.1	0.9	0.6	0.7	0.4	0.4	1.3	0.3	1.3	1.0	0.6	0.4	1.7	3.5	0.7	1.2	1.1	0.9	1.2
STD ERR OF P	0.5	1.4	1.1	0.5	0.7	0.6	0.7	1.6	0.4	1.4	1.0	0.9	0.5	1.8	3.7	0.8	1.3	1.1	0.9	1.2

EXERCISE: RQ06

Part A. According to the table giving the team average and averages for each of 6 baseball players, which player had the most CONSISTENT batting average between 1967 and 1971?

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 05 AGE: Ad	TEXT: Lee																			
DELTA-P	2.7 \	-0.1	0.3	-0.1	-0.1	-0.2	0.1	2.0	-0.4	0.7	1.4	-0.1	-2.2#	1.0	2.5#	-0.5	0.6	0.9	-0.1	-1.6*
STD ERR OF DP		0.6	0.5	0.5	0.7	0.3	0.3	1.6	0.2	0.6	1.1	0.5	0.4	0.9	1.0	0.3	0.8	1.4	1.0	0.8
STD ERR OF P	0.3	0.6	0.6	0.6	0.9	0.5	0.4	1.6	0.4	0.7	1.2	0.7	0.3	1.0	1.0	0.4	0.9	1.5	1.1	0.8
RESPONSE: 06 AGE: 17	TEXT: Womer																			
DELTA-P	16.8	8.3#	2.5	-5.1#	-3.9#	-2.5#	2.3*	23.6#	-5.4#	23.4#	15.7#	-1.7	-9.3#	16.4#	5.8	0.4	-2.1	0.3	-4.9	-8.7#
STD ERR OF DP		2.6	1.7	1.5	1.4	1.0	0.9	2.7	0.6	3.2	2.5	1.4	1.3	3.5	6.6	1.6	1.8	3.6	2.6	1.6
STD ERR OF P	1.0	3.1	1.9	1.7	1.2	1.2	1.5	2.9	1.0	3.4	3.0	1.5	1.1	3.5	6.8	2.0	1.9	3.4	2.7	1.5
AGE: Ad																				
DELTA-P	13.1	7.8*	-2.3	-1.7	-2.3	-2.0*	1.9*	21.9#	-4.0#	8.6#	1.2	-3.3#	-7.5#	17.0#	0.5	0.1	0.5	-3.1	-3.7	-7.6#
STD ERR OF DP		3.1	2.0	2.1	1.7	0.9	0.8	3.6	0.6	1.6	2.0	1.2	1.2	3.8	3.2	1.4	2.9	3.1	2.6	2.2
STD ERR OF P	1.3	3.7	2.2	2.6	1.5	1.2	1.8	4.3	1.0	2.2	2.4	1.8	1.1	4.1	3.3	1.8	3.2	3.4	3.1	1.9
RESPONSE: 09 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	3.3	0.5	-0.6	-0.2	0.4	-1.5*	1.4#	1.8	-0.5	2.8	-0.6	-0.6	-1.3#	3.4	0.5	0.9	-1.2	1.3	-1.8#	-2.6#
STD ERR OF DP		0.6	0.7	0.6	1.0	0.4	0.3	1.3	0.3	1.5	1.0	0.6	0.4	2.0	1.5	0.7	0.8	1.9	0.6	0.7
STD ERR OF P	0.4	0.6	0.8	0.5	1.3	0.4	0.7	1.5	0.5	1.5	0.9	0.6	0.6	2.2	1.6	0.8	0.7	2.1	0.5	0.6
AGE: Ad																				
DELTA-P	5.9	1.8	-0.2	-0.7	-0.6	-2.1#	1.9#	10.9#	-1.9#	5.0#	-0.6	-2.6#	-3.5#	5.6*	0.9	-0.4	0.4	0.9	-0.5	-3.8#
STD ERR OF DP		1.3	1.2	0.8	0.9	0.6	0.6	2.9	0.5	1.4	1.1	0.7	0.8	2.7	1.8	0.8	2.0	2.2	1.7	1.2
STD ERR OF P	0.6	1.6	1.5	0.9	0.9	0.7	1.0	3.2	0.5	1.7	1.1	0.7	0.8	2.8	2.0	0.9	2.1	2.4	1.8	1.1

EXERCISE: RQ06

Part B. According to the table, which player's batting average agrees most CLOSELY with the batting average of his team in all 5 years?

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	0.5	-0.3	0.1	-0.1	0.3	-0.1	0.1	0.9	-0.3	2.0	-0.1	-0.2	-0.5#	2.6	-0.1	-0.4*	-0.5#	1.6	-0.5#	-0.5#
STD ERR OF DP		0.2	0.4	0.2	0.3	0.1	0.1	0.5	0.2	1.8	0.4	0.2	0.2	1.6	0.4	0.2	0.2	1.2	0.2	0.2
STD ERR OF P	0.2	0.1	0.6	0.2	0.3	0.2	0.2	0.6	0.1	2.0	0.4	0.2	0.0	1.7	0.4	0.1	0.0	1.3	0.0	0.0
AGE: Ad																				
DELTA-P	0.3	0.9	-0.3	-0.3	-0.2	0.2	-0.2	-0.3	0.1	-0.3	-0.3	0.4	-0.2	-0.3	-0.3	-0.2	-0.3	-0.3	1.6	-0.1
STD ERR OF DP		0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	1.6	0.3
STD ERR OF P	0.2	1.0	0.0	0.0	0.1	0.5	0.1	0.0	0.3	0.0	0.0	0.7	0.1	0.0	0.0	0.1	0.0	0.0	1.9	0.2
RESPONSE: 01 AGE: 17	TEXT: Lehmann																			
DELTA-P	4.0	1.4*	-0.5	-1.2	0.6	0.3	-0.3	2.8	-0.6*	1.7	-0.4	0.6	-1.6#	2.8	2.3	0.3	-1.3	-1.4	-1.2	-0.4
STD ERR OF DP		0.7	0.9	0.6	1.1	0.4	0.4	1.4	0.3	1.4	1.1	0.7	0.6	1.8	1.3	0.8	1.0	1.3	0.9	1.6
STD ERR OF P	0.5	0.6	1.0	0.6	1.4	0.7	0.5	1.5	0.6	1.3	1.0	1.0	0.7	2.0	1.2	1.0	1.0	1.2	1.0	1.8
AGE: Ad																				
DELTA-P	3.3	0.3	-1.1	0.3	0.5	0.4	-0.4	4.7*	-0.5	0.7	1.2	-0.7	-0.7	1.6	1.9	0.3	1.3	-1.1	-3.3#	-0.6
STD ERR OF DP		0.9	0.7	0.8	0.9	0.4	0.4	2.1	0.3	0.7	1.2	0.7	0.8	2.1	1.5	0.6	1.6	1.2	0.5	1.2
STD ERR OF P	0.5	1.0	0.7	1.0	1.0	0.6	0.6	2.3	0.5	0.8	1.4	0.8	0.9	2.3	1.5	0.8	1.7	1.2	0.6	1.3
RESPONSE: 02* AGE: 17	TEXT: Finley																			
DELTA-P	69.8	-6.3	1.6	6.2#	-3.1	4.4#	-4.1#	-22.0#	5.6#	-19.7#	-9.8#	0.6	10.2#	-19.9#	-9.1#	4.4#	3.2	-6.4	1.4	6.9
STD ERR OF DP		3.2	2.5	1.9	1.7	1.1	1.1	2.8	0.9	4.1	3.3	1.8	1.5	3.8	2.8	1.6	2.4	5.3	4.2	3.6
P-VALUE	69.8	63.5	71.5	76.0	66.7	74.2	65.8	47.8	75.4	50.1	60.0	70.4	80.0	50.0	60.8	74.2	73.0	63.4	71.3	76.8
STD ERR OF P	1.3	3.9	3.0	2.0	1.6	1.8	1.6	3.2	1.2	4.2	3.3	2.3	1.9	4.0	2.7	1.7	2.3	5.4	4.9	3.7

EXERCISE: RQ06

Part B. According to the table, which player's batting average agrees most CLOSELY with the batting average of his team in all 5 years?

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 02* AGE: Ad TEXT: Finley																				
DELTA-P	70.3	-4.6	3.2	1.5	-1.2	5.4*	-5.0*	-27.6*	5.0*	-13.1*	-2.1	4.5*	12.6*	-21.1*	-4.4	0.8	2.6	2.0	1.8	9.5*
STD ERR OF DP		2.4	2.2	1.9	2.0	1.5	1.4	3.5	0.7	2.2	2.5	1.8	1.9	4.0	3.5	1.6	3.0	4.5	4.3	3.0
P-VALUE	70.3	65.7	73.5	71.8	69.1	75.7	65.3	42.7	75.3	57.2	68.2	74.8	82.9	49.2	65.9	71.2	72.9	72.3	72.2	79.8
STD ERR OF P	1.2	2.7	2.7	2.2	2.2	1.7	2.1	3.7	1.2	2.5	2.5	2.3	2.1	4.1	3.5	1.9	3.1	4.6	4.7	3.2
RESPONSE: 03 AGE: 17 TEXT: Hlavaty																				
DELTA-P	2.9	1.2	-0.2	-1.4*	0.8	-0.4	0.3	1.8	-0.4	-1.0	0.7	1.1	-0.9	-0.1	-0.6	0.1	-2.0*	2.1	0.7	0.4
STD ERR OF DP		1.0	0.6	0.6	1.1	0.5	0.4	1.8	0.3	0.9	1.2	0.8	0.5	1.2	1.3	0.7	0.6	3.4	1.2	1.1
STD ERR OF P	0.5	1.2	0.5	0.5	1.4	0.7	0.7	2.0	0.5	0.8	1.3	1.1	0.5	1.1	1.2	0.8	0.5	3.7	1.4	1.1
AGE: Ad																				
DELTA-P	3.7	-1.5*	-0.5	0.3	1.5	-0.1	0.1	3.8*	-0.6*	-0.4	0.4	1.1	-1.4*	2.7	-1.6	-0.8	-1.0	2.0	2.0	-0.8
STD ERR OF DP		0.7	1.0	0.8	1.0	0.6	0.5	1.9	0.3	0.7	1.0	0.8	0.5	2.0	1.2	0.6	1.0	2.5	1.9	1.4
STD ERR OF P	0.5	0.5	1.2	0.9	1.3	0.7	0.8	2.0	0.5	0.8	1.0	1.0	0.8	2.1	1.3	0.8	1.1	2.7	2.2	1.3
RESPONSE: 04 AGE: 17 TEXT: Heimer																				
DELTA-P	2.7	-0.4	0.6	-0.6	0.4	-0.4	0.4	0.8	-0.0	0.2	0.4	0.9	-0.9	1.1	-0.6	0.5	-0.6	-1.7*	-0.0	-0.1
STD ERR OF DP		0.6	0.7	0.5	0.5	0.4	0.4	0.8	0.2	1.0	0.9	0.6	0.5	1.5	0.8	0.5	0.7	0.6	0.7	1.2
STD ERR OF P	0.3	0.6	0.9	0.6	0.5	0.5	0.6	0.9	0.4	1.0	0.9	0.8	0.5	1.6	0.8	0.6	0.7	0.6	0.8	1.3
AGE: Ad																				
DELTA-P	3.7	-1.0	-0.6	0.6	0.7	-1.3*	1.2*	-1.3	0.2	1.3	-0.2	-1.0	-0.2	-0.9	2.1	0.3	-0.7	-1.8	-0.8	1.0
STD ERR OF DP		0.9	0.9	1.1	1.3	0.5	0.5	0.9	0.2	1.1	0.8	0.7	1.0	1.2	2.4	0.7	1.6	1.2	1.3	1.7
STD ERR OF P	0.6	0.9	0.9	1.4	1.5	0.5	0.9	0.9	0.7	1.4	1.0	0.8	1.2	1.2	2.5	0.9	1.7	1.1	1.4	2.0
RESPONSE: 05 AGE: 17 TEXT: Lee																				
DELTA-P	7.0	2.5	-0.9	-2.0*	1.0	-1.0	0.9	9.9*	-2.6*	5.6*	2.7	-1.3	-1.9*	5.5*	2.7	-2.1*	2.0	4.0	-0.7	-4.2*
STD ERR OF DP		1.5	1.1	0.9	1.5	0.5	0.5	1.9	0.6	2.1	1.6	0.9	0.6	2.4	1.6	0.8	1.5	3.1	2.1	1.2
STD ERR OF P	0.7	1.8	1.3	0.8	1.8	0.9	0.9	2.3	0.6	2.4	1.5	1.2	1.0	2.6	1.5	0.9	1.6	3.3	2.5	0.9
AGE: Ad																				
DELTA-P	4.8	0.9	-0.5	0.5	-0.9	-0.2	0.2	8.9*	-1.6*	2.8*	0.1	-1.0	-1.9*	8.4*	-1.3	-0.6	-0.9	3.4	-3.2*	-1.9
STD ERR OF DP		1.1	1.0	1.1	0.8	0.7	0.7	2.1	0.4	1.1	1.4	0.9	0.9	2.9	1.2	0.6	1.4	3.4	0.9	1.2
STD ERR OF P	0.6	1.2	1.2	1.4	0.8	1.0	0.9	2.4	0.5	1.4	1.5	1.2	0.7	3.2	1.1	0.6	1.6	3.7	0.8	1.1
RESPONSE: 06 AGE: 17 TEXT: Womer																				
DELTA-P	3.7	1.5	-0.0	-0.7	-0.4	-0.4	0.4	2.5	-0.6*	8.3*	1.0	0.2	-2.4*	3.3*	3.3	-0.9	0.2	-0.6	-0.9	-0.4
STD ERR OF DP		0.9	0.7	0.6	0.8	0.4	0.4	1.3	0.3	2.2	1.1	0.7	0.4	1.3	2.4	0.5	0.9	1.1	0.9	1.1
STD ERR OF P	0.4	1.1	0.8	0.6	0.9	0.6	0.6	1.5	0.4	2.4	1.1	0.9	0.3	1.4	2.6	0.7	1.1	1.1	0.9	1.1
AGE: Ad																				
DELTA-P	2.5	2.8*	-1.0	-0.7	-0.6	-0.5	0.5	2.9	-0.5*	1.6*	0.7	-0.9*	-1.0	2.9	0.7	0.1	-1.3*	-2.5*	0.1	-0.2
STD ERR OF DP		0.8	0.5	0.6	0.6	0.4	0.3	1.5	0.2	0.7	0.9	0.4	0.6	1.6	1.2	0.4	0.6	0.4	1.4	1.0
STD ERR OF P	0.3	0.9	0.5	0.7	0.6	0.4	0.6	1.6	0.4	0.8	1.0	0.5	0.7	1.6	1.3	0.6	0.6	0.0	1.5	1.0
RESPONSE: 09 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	9.4	0.5	-0.6	-0.2	0.4	-2.5*	2.3*	3.4	-1.1*	2.9	5.5*	-2.0*	-2.1*	4.6	2.1	-1.8*	-1.0	2.4	1.3	-1.8
STD ERR OF DP		1.3	1.4	1.2	1.4	0.6	0.6	2.1	0.5	2.0	2.3	0.9	0.8	3.0	2.6	0.9	1.0	2.5	1.6	1.9
STD ERR OF P	0.7	1.4	1.6	1.4	1.6	0.9	1.0	2.4	0.7	2.3	2.6	1.1	1.1	3.2	2.8	1.0	0.8	2.7	1.9	2.0
AGE: Ad																				
DELTA-P	11.4	2.2	0.8	-2.4*	0.2	-3.9*	3.6*	8.8*	-2.1*	7.5*	0.3	-2.4*	-7.3*	6.8*	2.9	0.1	0.2	-1.8	1.6	-7.0*
STD ERR OF DP		1.5	1.4	1.0	1.5	0.7	0.6	2.9	0.5	1.5	2.0	1.1	1.2	3.1	3.4	1.0	2.5	2.5	2.3	1.4
STD ERR OF P	0.8	1.7	1.7	0.9	1.8	1.0	1.0	3.0	0.8	1.8	2.1	1.3	1.0	3.3	3.6	1.2	2.5	2.5	2.6	1.5

APPENDIX D

UNRELEASED EXERCISES

Report #: MA01

NAEP #: A11003-1

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		06-18
National P-value:		
	MA01	86.92

Timing: (in seconds)
MA01 Exercise total: 18

EXERCISE: UA01

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective I.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.0	-0.5	0.1	-0.6	0.9	0.4	-0.4	2.0	-0.4*	1.0	1.3	-0.7*	-0.8*	3.9	-0.6	-0.5	-0.2	-0.5	-0.3	-0.1
STD ERR OF DP		0.4	0.6	0.3	0.5	0.2	0.2	1.0	0.2	1.1	1.4	0.3	0.4	2.1	0.5	0.4	0.5	0.6	0.5	0.6
STD ERR OF P	0.3	0.3	0.6	0.3	0.7	0.4	0.3	1.2	0.2	1.2	1.5	0.2	0.2	2.3	0.5	0.4	0.6	0.5	0.5	0.7
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	86.9	-5.3*	0.9	3.9*	-0.0	-1.0	1.0	-18.5*	4.2*	-6.1	-5.8	3.2*	5.3*	-21.6*	0.1	1.4	3.9*	1.1	1.1	4.9*
STD ERR OF DP		1.7	1.6	1.1	1.6	0.7	0.7	2.8	0.7	3.2	3.6	1.4	1.1	4.8	2.4	1.3	1.5	2.1	2.6	1.9
P-VALUE	86.9	81.6	87.8	90.8	86.9	86.0	87.9	68.4	91.1	80.8	81.1	90.2	92.2	65.4	87.0	88.3	90.8	88.0	88.0	91.8
STD ERR OF P	0.9	2.0	1.7	1.2	1.9	1.2	1.1	2.8	1.0	3.3	3.8	1.4	1.1	5.0	2.4	1.5	1.5	2.0	3.0	2.1
RESPONSE: 3* AGE: 9 TEXT: I Don't Know.																				
DELTA-P	0.7	0.2	0.3	-0.5*	0.1	-0.1	0.1	-0.2	-0.1	-0.7*	0.1	-0.3	-0.5	1.0	-0.3	-0.5*	0.2	-0.3	1.5	-0.7*
STD ERR OF DP		0.4	0.6	0.2	0.4	0.2	0.2	0.3	0.1	0.2	0.7	0.2	0.2	0.8	0.4	0.2	0.5	0.3	1.0	0.2
STD ERR OF P	0.2	0.5	0.8	0.1	0.4	0.2	0.4	0.4	0.2	0.0	0.8	0.2	0.2	0.9	0.3	0.1	0.6	0.3	1.1	0.0

Report #: UA02

NAEP #: A13009-234

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple part short answer
Scoring Type: Professional
Administration Mode: Individual

		13	17	Adult
Age:				
Package-Exercise:		10-05	14-03	04-02
National P-value:				
	UA02A	8.87	7.75	4.73
	UA02B	18.02	14.12	5.93

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UA02

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective I.

Part A.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	8.2	1.1	0.3	0.6	-2.0	0.9	-0.9	2.4	-0.2	0.6	1.2	-0.6	-0.6	5.5	-0.5	-1.5	3.5	0.4	0.2	-3.0
STD ERR OF DP		2.1	1.7	1.8	1.4	0.7	0.7	2.2	0.4	2.3	2.3	0.9	0.9	2.9	3.1	1.0	3.8	2.3	2.2	2.2
STD ERR OF P	1.0	2.5	1.9	2.3	1.3	1.2	1.3	2.4	1.1	2.5	2.6	1.1	1.4	2.9	3.6	1.1	4.3	2.3	2.4	2.3
AGE: 17																				
DELTA-P	7.7	-1.6	-4.2*	2.1	3.1	0.4	-0.4	0.4	0.2	1.2	0.6	0.3	-0.6	-0.7	4.5	-2.2	-0.7	-3.9*	2.9	3.8
STD ERR OF DP		1.6	1.2	1.8	2.3	0.8	0.7	1.7	0.3	2.0	2.0	1.0	0.8	1.7	3.5	1.1	2.0	1.5	2.8	3.4
STD ERR OF P	1.1	1.6	0.9	2.2	2.9	1.3	1.3	1.4	1.2	2.2	2.1	1.5	1.4	1.7	3.7	1.1	2.1	1.3	3.3	3.9
AGE: Ad																				
DELTA-P	9.9	-4.1*	0.4	3.4	-0.9	-0.9	0.8	1.5	-0.3	0.0	-0.7	0.9	-1.5	-0.3	1.3	0.5	-4.5*	-0.3	-0.6	3.1
STD ERR OF DP		2.0	2.3	2.7	2.0	1.1	1.0	2.8	0.4	1.6	2.2	1.2	1.5	2.6	3.3	1.5	1.9	3.4	2.7	4.3
STD ERR OF P	1.3	1.9	2.6	3.4	2.1	1.5	1.9	2.7	1.5	2.1	2.2	1.4	2.2	2.6	3.8	2.3	1.7	3.1	2.7	4.6
RESPONSE: 10* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	8.9	-2.1	-1.5	0.4	3.0	-0.2	0.2	-4.6*	1.3*	-3.4	-6.4*	-0.6	4.4*	-4.8*	-1.1	1.2	0.6	-0.7	-0.6	1.1
STD ERR OF DP		1.3	1.6	1.3	1.8	0.7	0.7	1.6	0.3	2.0	1.2	0.9	1.1	1.7	1.6	1.3	2.3	2.2	2.0	2.1
P-VALUE	8.9	6.9	7.3	9.2	11.9	8.6	9.1	4.3	10.1	5.5	2.5	8.2	13.2	4.1	7.7	10.1	9.5	8.2	8.3	9.9
STD ERR OF P	0.9	1.2	1.9	1.5	2.2	1.1	1.1	1.5	1.0	1.9	1.1	1.0	1.7	1.7	1.6	1.5	2.6	2.2	2.3	2.2
AGE: 17																				
DELTA-P	7.8	-2.0	0.1	1.2	0.2	2.5*	-2.3*	-5.6*	1.1*	-5.2*	-2.5	-1.6	3.4*	-6.5*	-1.0	-0.9	3.3	1.1	1.0	2.8
STD ERR OF DP		1.1	1.0	1.3	1.5	0.7	0.6	1.0	0.2	1.1	2.1	0.9	0.9	0.9	1.8	0.9	2.2	2.3	1.8	1.8
P-VALUE	7.8	5.7	7.9	9.0	7.9	10.2	5.5	2.2	8.8	2.5	5.3	6.2	11.2	1.3	6.7	6.9	11.0	8.8	8.8	10.5
STD ERR OF P	0.7	1.1	0.9	1.5	1.9	1.2	0.7	0.9	0.8	1.2	2.4	0.9	1.3	0.5	1.8	1.2	2.4	2.4	2.1	1.9
AGE: Ad																				
DELTA-P	4.7	-2.0	3.6*	-1.3	-0.6	3.4*	-3.2*	-4.0*	0.7*	-1.1	-2.6*	-1.1	4.7*	-2.4	-3.2*	0.1	4.3	-1.1	-0.7	0.7
STD ERR OF DP		1.1	1.8	1.1	1.3	0.7	0.6	1.0	0.2	2.2	1.3	1.0	1.9	1.3	1.1	0.8	3.9	2.1	1.8	2.0
P-VALUE	4.7	2.7	8.3	3.4	4.2	8.1	1.6	0.7	5.4	3.6	2.1	3.7	9.5	2.3	1.6	4.9	9.1	3.7	4.0	5.4
STD ERR OF P	0.4	1.0	2.3	1.0	1.4	1.4	0.4	0.7	0.9	2.8	0.8	0.9	1.6	1.1	0.8	1.1	4.5	2.0	1.7	2.0
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	18.7	1.7	4.6	-5.9*	0.8	0.8	-0.8	1.9	-1.0	10.5	2.1	-1.0	-3.5*	6.7	-2.5	1.3	-5.1	1.0	0.9	-1.1
STD ERR OF DP		2.4	3.1	1.7	2.1	0.9	0.9	2.3	0.7	5.8	3.8	1.4	1.2	6.2	4.8	1.9	2.9	2.9	2.8	3.3
STD ERR OF P	1.3	2.7	3.9	1.7	2.3	1.7	1.5	2.4	1.3	6.5	3.9	1.8	1.4	6.5	5.3	2.5	3.0	2.9	2.8	3.4
AGE: 17																				
DELTA-P	30.9	-1.7	3.3	-1.0	-0.9	-1.2	1.1	-4.1	-0.1	1.5	4.3	1.7	-5.2*	5.1	-5.0	1.8	-1.6	6.2	-1.2	-6.9
STD ERR OF DP		2.3	2.4	2.1	2.3	1.2	1.1	2.8	0.6	5.0	3.5	1.7	1.4	3.9	5.6	1.6	2.8	5.4	2.3	3.5
STD ERR OF P	1.3	2.5	2.8	2.5	2.6	1.7	1.7	2.8	1.5	5.4	3.5	2.2	1.8	4.1	5.8	2.1	3.0	5.7	2.5	3.6
AGE: Ad																				
DELTA-P	56.6	4.7	-2.0	2.0	-4.4	-4.0*	3.8*	-4.1	0.1	3.9	3.4	-0.1	-5.6*	1.5	3.4	1.3	-6.2	-0.8	4.6	-5.2
STD ERR OF DP		3.9	3.5	4.2	3.8	1.6	1.4	4.4	0.7	2.6	3.7	2.3	2.2	5.1	4.1	2.6	5.8	4.3	3.9	4.2
STD ERR OF P	2.3	4.1	3.9	5.3	4.2	2.8	2.7	4.6	2.6	3.5	4.1	3.6	2.9	5.5	4.4	4.1	6.2	4.4	4.1	4.4

EXERCISE: UA02

Part B.

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	9.8	2.3	-1.9	-0.5	0.4	-0.5	0.5	1.2	-0.1	-1.3	1.3	0.1	-1.0	3.8	-1.1	0.4	1.4	-1.0	-1.7	-0.9
STD ERR OF DP		1.9	1.8	1.6	1.7	0.7	0.7	2.6	0.4	3.0	2.7	1.1	1.0	3.0	2.5	1.1	2.2	2.1	1.4	2.3
STD ERR OF P	1.0	2.1	2.1	2.0	2.0	1.2	1.2	2.8	1.1	3.2	3.0	1.5	1.2	3.0	3.0	1.5	2.4	2.3	1.5	2.4

EXERCISE: MA02

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective I.

Part B.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	10.6	-0.1	-5.2*	1.2	4.0	-0.1	0.1	3.0	-0.1	2.1	2.9	-0.2	-1.5	-1.3	2.0	-2.4	1.2	-1.5	-0.6	7.2*
STD ERR OF DP		2.1	1.4	1.7	2.2	1.0	0.9	2.3	0.4	2.2	2.2	1.0	0.9	2.0	3.4	1.3	2.8	2.0	1.9	3.5
STD ERR OF P	1.1	2.4	1.3	1.9	2.4	1.4	1.5	2.6	1.2	2.3	2.6	1.5	1.5	1.9	3.6	1.4	3.0	2.0	2.2	4.1
AGE: Ad																				
DELTA-P	10.6	-4.4*	0.7	2.8	0.4	-1.4	1.3	2.0	-0.2	-0.9	-0.6	1.9	-1.9	-1.6	0.9	1.0	-5.6**	-0.8	-0.5	4.0
STD ERR OF DP		2.0	2.4	2.7	2.6	1.1	1.0	2.9	0.4	1.6	2.2	1.5	1.8	2.9	3.6	1.6	2.2	4.0	3.1	4.1
STD ERR OF P	1.5	1.8	2.8	3.4	3.0	1.5	2.1	2.7	1.7	2.0	2.2	2.5	2.1	2.9	4.1	2.5	2.0	3.9	3.2	4.4
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	18.0	-3.2	-3.9*	2.4	4.0**	1.2	-1.2	-9.5**	2.3**	-6.5*	-7.3**	1.3	5.0**	-5.3	4.8	-0.9	0.1	-1.2	-2.1	4.5
STD ERR OF DP		2.5	1.7	1.8	1.9	1.0	1.0	1.8	0.5	3.2	2.4	1.3	1.4	3.1	3.0	1.5	3.7	3.0	3.2	3.6
P-VALUE	18.0	14.8	14.1	20.5	22.0	19.2	16.9	8.6	20.3	11.5	10.7	19.3	23.0	12.8	22.9	17.2	18.2	16.9	15.9	22.5
STD ERR OF P	1.1	2.9	1.8	2.2	2.1	1.5	1.4	1.6	1.3	3.4	2.3	1.9	1.8	3.1	3.2	1.8	4.2	2.8	3.4	3.9
AGE: 17																				
DELTA-P	14.1	-1.3	-1.6	3.3*	-1.0	2.7**	-2.5**	-8.0**	1.4**	-5.3*	-6.0**	-2.5*	5.5**	-7.8**	-1.9	-0.6	5.3*	1.8	-2.0	4.4
STD ERR OF DP		1.8	1.4	1.6	1.6	0.9	0.9	1.8	0.3	2.3	2.3	1.1	1.2	2.1	2.4	1.1	2.3	2.9	2.5	3.0
P-VALUE	14.1	12.8	12.5	17.5	13.2	16.8	11.6	6.2	15.5	8.8	8.1	11.7	19.6	6.4	12.3	13.5	19.4	15.9	12.1	18.5
STD ERR OF P	0.9	2.0	1.5	2.0	1.9	1.5	1.1	1.8	1.0	2.3	2.3	1.2	1.9	2.0	2.4	1.5	2.6	3.0	2.6	3.2
AGE: Ad																				
DELTA-P	5.9	-1.6	2.5	-0.3	-1.0	3.3**	-3.0**	-4.8**	0.9**	-1.3	-2.8*	-2.4*	6.8**	-4.4**	-1.6	1.3	2.1	0.4	-1.8	-0.2
STD ERR OF DP		1.4	2.0	1.5	1.2	0.9	0.9	1.0	0.2	2.2	1.3	1.0	1.9	1.3	1.2	1.0	3.7	1.8	1.5	2.0
P-VALUE	5.9	4.3	8.4	5.7	5.0	9.2	2.9	1.1	6.8	4.7	3.2	3.5	12.8	1.5	4.3	7.2	8.1	6.4	4.2	5.8
STD ERR OF P	0.9	1.4	2.5	1.8	1.0	1.8	0.5	0.7	1.1	2.8	0.9	0.9	2.2	1.0	1.0	1.5	4.4	1.6	1.2	2.0
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	22.3	0.4	2.7	-1.0	-1.9	-1.7	1.7	0.2	-1.2	9.2	2.6	-0.6	-3.2*	6.7	-2.2	0.4	-4.2	-0.2	2.1	-0.1
STD ERR OF DP		2.2	3.1	2.0	2.5	1.0	1.0	2.7	0.7	5.6	4.0	1.3	1.4	6.3	4.4	1.7	2.7	3.4	3.5	3.2
STD ERR OF P	1.4	2.2	3.8	2.1	2.9	1.8	1.7	2.9	1.3	6.3	4.1	1.6	1.9	6.7	4.9	2.1	2.9	3.4	3.8	3.5
AGE: 17																				
DELTA-P	36.3	-3.8	6.5*	-3.7	0.7	-2.4	2.2	-3.7	-0.4	2.0	3.8	0.5	-3.8**	8.3*	-4.9	2.2	-1.0	0.1	-0.4	-8.0*
STD ERR OF DP		2.5	2.7	2.3	2.5	1.3	1.2	2.6	0.5	4.9	3.1	1.8	1.5	3.6	6.2	1.7	3.9	5.1	3.2	3.4
STD ERR OF P	1.4	2.7	3.2	2.7	2.9	1.9	1.9	2.5	1.6	5.2	3.2	2.4	2.0	3.5	6.6	2.0	4.4	5.3	3.6	3.5
AGE: Ad																				
DELTA-P	58.9	4.0	-3.7	1.9	-1.8	-2.6	2.4	-6.0	0.3	1.0	6.8	0.4	-7.0**	1.5	3.9	0.9	-6.2	-1.9	6.7	-5.7
STD ERR OF DP		3.0	3.4	3.6	3.3	1.5	1.3	4.7	0.7	2.9	3.5	2.1	2.6	5.2	3.7	2.5	5.3	4.7	4.8	3.9
STD ERR OF P	2.0	3.0	4.1	4.5	3.6	2.5	2.4	4.6	2.3	3.9	3.5	3.2	3.1	5.5	3.9	3.6	5.7	4.9	5.0	4.1

Report #: UA03

NAEP #: A21013-1234

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		05-35	03-32	01-21	06-03
National P-value:					
	UA03	41.98	75.26	91.46	91.36

Timing: (in seconds)

		9	13	17	Adult
UA03	Exercise total:	42	37	36	*

*Time not limited by paced tape.

EXERCISE: UA03

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective IV.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	2.1	0.5	0.1	-0.8	0.3	-0.0	0.0	1.3	-0.4	2.1	-0.7	-0.3	-0.9	2.5	0.9	0.0	-0.0	-1.6*	-0.6	-0.2
STD ERR OF DP		0.6	0.5	0.4	0.6	0.3	0.3	0.8	0.2	1.7	0.9	0.6	0.4	1.4	1.2	0.4	1.0	0.5	0.8	0.9
STD ERR OF P	0.3	0.8	0.5	0.4	0.9	0.5	0.4	0.9	0.3	1.8	1.0	0.7	0.4	1.5	1.2	0.5	1.0	0.4	0.7	1.0
AGE: 13																				
DELTA-P	5.4	-4.7*	6.5	0.5	-3.2	0.2	-0.2	3.3	-0.8	-0.7	-1.9	0.3	-1.2	12.5	2.9	-2.2	-4.5*	-1.5	7.4	-5.4*
STD ERR OF DP		1.6	3.4	3.0	1.8	0.5	0.5	3.5	0.8	1.5	1.5	0.7	0.9	9.7	7.3	2.0	1.6	2.4	6.9	1.6
STD ERR OF P	1.6	0.3	4.3	3.9	1.2	1.7	1.6	3.5	1.8	2.0	2.0	1.8	1.6	10.0	8.0	2.4	0.5	2.2	7.6	0.0
AGE: 17																				
DELTA-P	0.3	-0.2	-0.0	-0.1	0.3	-0.0	0.0	1.5	-0.2	-0.2	-0.2	-0.3*	-0.3*	2.6	-0.3*	-0.2	-0.3*	-0.1	-0.1	-0.3*
STD ERR OF DP		0.2	0.2	0.2	0.3	0.1	0.1	0.8	0.1	0.2	0.2	0.1	0.1	1.5	0.1	0.2	0.1	0.3	0.3	0.1
STD ERR OF P	0.1	0.1	0.2	0.2	0.5	0.2	0.2	0.9	0.1	0.1	0.1	0.0	0.0	1.6	0.0	0.1	0.0	0.3	0.3	0.0
AGE: Ad	Response did not occur at this age.																			
RESPONSE: 10* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	42.0	-6.6*	-3.1	7.0*	2.7	0.0	0.0	-17.0*	4.8*	-17.4*	0.4	4.6	7.9*	-10.9	-7.2	-2.0	5.2	-1.5	2.8	11.6*
STD ERR OF DP		2.9	3.0	2.1	2.3	1.1	1.1	3.7	1.0	4.5	5.0	2.3	1.9	5.5	6.3	1.9	2.9	3.1	3.6	3.1
P-VALUE	42.0	35.4	38.9	49.0	44.7	42.0	42.0	24.9	46.7	24.6	42.4	46.5	49.9	31.1	34.7	40.0	47.2	40.5	44.7	53.6
STD ERR OF P	1.6	3.4	3.9	2.2	2.4	1.7	2.2	3.9	1.9	4.5	5.4	2.7	2.9	5.6	7.1	2.6	2.7	3.1	3.5	3.2
AGE: 13																				
DELTA-P	75.3	-3.6	-6.8	0.8	9.4*	-2.6*	2.4*	-25.2*	4.8*	-12.6*	-5.0	-0.0	7.5*	-27.4*	-7.5	1.7	7.3*	0.0	0.0	10.9*
STD ERR OF DP		3.4	3.4	3.2	2.7	1.0	0.9	4.5	0.9	3.6	3.7	1.4	1.3	9.9	6.9	2.2	3.1	4.2	6.7	2.1
P-VALUE	75.3	71.7	68.5	76.1	84.6	72.7	77.6	50.1	80.1	62.6	70.3	75.2	82.7	47.9	67.8	77.0	82.6	75.3	75.3	86.1
STD ERR OF P	1.9	3.8	4.1	3.9	2.8	1.9	2.2	4.4	2.1	4.4	4.5	1.9	2.0	10.0	7.6	3.0	3.2	3.9	7.3	1.9
AGE: 17																				
DELTA-P	91.5	-1.4	-0.2	0.4	1.0	-0.2	0.2	-13.1*	2.5*	-6.8*	-3.3*	0.0	3.9*	-11.0*	-3.9*	2.0*	2.3	-9.2*	2.4	4.7*
STD ERR OF DP		1.5	1.5	1.1	1.2	0.7	0.7	2.4	0.5	3.4	1.6	1.0	0.6	2.7	2.0	0.8	1.3	2.8	1.4	1.5
P-VALUE	91.5	90.1	91.3	91.8	92.4	91.3	91.7	78.4	94.0	84.7	88.1	91.5	95.4	80.4	87.5	93.5	93.8	82.2	93.9	96.1
STD ERR OF P	0.8	1.7	1.9	1.1	1.3	1.1	0.9	2.6	0.6	3.6	1.7	1.1	0.7	2.9	2.1	1.0	1.4	2.9	1.6	1.5
AGE: Ad																				
DELTA-P	91.4	-1.0	-0.1	1.2	-0.4	-2.0*	1.9*	-11.2*	2.3*	-4.5*	1.6	0.4	3.3*	-7.7*	-1.4	1.2	0.5	-1.1	0.3	2.8
STD ERR OF DP		1.9	1.4	1.1	1.6	0.9	0.8	3.7	0.6	1.8	1.3	1.1	1.1	2.9	3.6	1.0	2.5	3.5	1.7	1.8
P-VALUE	91.4	90.3	91.3	92.6	91.0	89.3	93.3	80.2	93.6	86.8	93.0	91.8	94.7	83.7	90.0	92.5	91.8	90.3	91.7	94.1
STD ERR OF P	0.8	2.2	1.7	1.0	2.0	1.4	1.0	4.1	0.7	2.3	1.6	1.1	1.1	3.2	3.8	1.0	2.7	3.9	1.7	1.9
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	8.3	-1.6	1.8	-2.1	2.0	-0.4	0.4	1.7	-0.9	-1.7	11.7*	-4.5*	-3.6*	3.8	1.9	-1.3	-2.5*	3.1	0.7	-1.7
STD ERR OF DP		1.1	1.6	1.1	1.8	0.7	0.7	1.6	0.5	2.4	3.8	1.0	0.9	2.9	5.3	1.0	1.0	2.9	1.9	1.7
STD ERR OF P	0.9	1.1	2.1	0.9	2.2	0.8	1.3	1.7	0.9	2.3	4.2	0.9	1.1	3.0	5.8	1.1	0.7	3.3	1.7	1.8
AGE: 13																				
DELTA-P	1.2	0.2	0.1	0.3	-0.7	-0.4	0.3	0.9	-0.2	0.8	1.6	0.3	-0.9*	1.4	0.4	-0.0	0.6	-0.5	-0.5	-0.8
STD ERR OF DP		0.6	0.4	0.5	0.3	0.3	0.2	0.7	0.1	1.0	1.3	0.3	0.2	0.9	1.0	0.3	0.8	0.6	0.5	0.5
STD ERR OF P	0.3	0.7	0.5	0.6	0.3	0.3	0.4	0.7	0.3	1.1	1.4	0.5	0.2	0.9	1.1	0.5	0.9	0.5	0.5	0.4
AGE: 17																				
DELTA-P	0.5	1.0	0.1	-0.5*	-0.5*	-0.1	0.1	1.8	-0.2	-0.3	1.1	-0.1	-0.5*	-0.3	1.5	0.0	0.3	-0.5*	-0.1	-0.5*
STD ERR OF DP		0.7	0.3	0.2	0.2	0.2	0.2	1.0	0.1	0.3	0.8	0.2	0.2	0.3	1.8	0.3	0.5	0.2	0.4	0.2
STD ERR OF P	0.2	0.8	0.4	0.1	0.0	0.2	0.3	1.1	0.2	0.2	0.8	0.3	0.0	0.3	1.9	0.3	0.5	0.0	0.4	0.0

EXERCISE: UA03

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective IV.

RESPONSE: 39 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.6	0.4	-0.5	-0.4	0.6	0.2	-0.1	2.3*	-0.3*	0.9*	-0.2	-0.3	-0.4	1.0	-0.4	0.0	0.0	0.7	-0.6*	-0.6*
STD ERR OF DP		0.7	0.3	0.3	0.4	0.2	0.2	1.1	0.1	0.4	0.3	0.3	0.2	1.1	0.3	0.2	0.5	0.9	0.2	0.2
STD ERR OF P	0.2	0.8	0.1	0.2	0.5	0.3	0.2	1.3	0.2	0.6	0.4	0.2	0.2	1.2	0.2	0.3	0.6	0.9	0.0	0.0

Report #: UA04

NAEP #: A21014-1

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		06-09
National P-value:		
	UA04	1.44

Timing: (in seconds)
UA04 Exercise total: 42

EXERCISE: UA04

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective V.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	3.2	0.2	-0.4	-0.3	0.5	0.7	-0.7	2.8*	-0.9*	0.8	3.6	-1.3*	-1.6*	4.7*	-0.4	-0.8	-0.4	-0.4	-0.2	0.0
STD ERR OF DP		0.9	0.7	0.7	0.9	0.4	0.4	1.4	0.3	2.0	2.2	0.6	0.6	2.3	1.7	0.6	1.1	1.4	0.9	1.2
STD ERR OF P	0.5	1.1	0.6	0.7	1.1	0.7	0.5	1.6	0.5	2.2	2.3	0.6	0.6	2.5	1.8	0.7	1.2	1.5	0.9	1.3
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	1.4	-0.5	0.4	0.2	-0.1	0.6*	-0.6*	-1.1*	0.3*	-0.2	-0.5	0.5	0.5	-0.5	0.0	-0.3	0.8	-0.7	0.4	0.3
STD ERR OF DP		0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.1	0.9	1.0	0.6	0.4	0.5	0.7	0.3	0.6	0.5	0.6	0.7
P-VALUE	1.4	1.0	1.8	1.6	1.3	2.0	0.9	0.4	1.7	1.3	1.0	1.9	2.0	1.0	1.5	1.2	2.2	0.8	1.8	1.8
STD ERR OF P	0.2	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.3	1.0	1.0	0.7	0.5	0.5	0.8	0.3	0.7	0.5	0.6	0.8
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	9.9	-1.7	1.1	0.7	-0.0	-0.8	0.8	-4.3*	0.9	-2.8	-3.3	-0.3	-1.6	0.3	-3.6	0.6	3.5	-2.7	1.0	-1.2
STD ERR OF DP		1.2	1.5	1.3	1.1	0.7	0.7	1.5	0.5	2.2	2.0	1.0	1.1	3.0	2.0	1.1	2.3	2.4	1.9	1.4
STD ERR OF P	0.7	1.4	1.6	1.6	1.2	1.0	1.0	1.5	0.8	2.3	2.2	1.1	1.4	3.1	1.9	1.2	2.4	2.7	2.1	1.5

Report #: UA05

NAEP #: A21022-23

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		13	17
Package-Exercise:		02-21	08-06
National P-value:			
	UA05	59.35	71.95

Timing: (in seconds)

UA05	Exercise total:	61	57

EXERCISE: UA05

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.1	0.2	-0.1	-0.1	0.1	0.1	-0.1	0.3	-0.1	-0.1	-0.1	0.1	-0.0	-0.1	-0.1	0.0	0.1	0.2	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.0	0.2	0.1	0.0	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.3	0.0	0.0
AGE: 17																				
DELTA-P	0.5	-0.1	-0.5*	0.6	-0.1	-0.2	0.2	0.0	0.0	-0.5*	-0.5*	0.0	-0.1	0.6	-0.5*	-0.1	-0.1	1.2	-0.5*	0.0
STD ERR OF DP		0.3	0.2	0.5	0.3	0.2	0.2	0.5	0.1	0.2	0.2	0.3	0.3	0.7	0.2	0.2	0.4	1.3	0.2	0.4
STD ERR OF P	0.2	0.4	0.0	0.6	0.3	0.2	0.3	0.5	0.2	0.0	0.0	0.4	0.3	0.8	0.0	0.2	0.4	1.4	0.0	0.4
RESPONSE: 03* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	59.4	-14.5*	4.0	2.7	6.3*	2.2	-2.2	-28.1*	6.2*	-21.4*	-11.9*	0.7	13.4*	-30.1*	-9.9*	-2.5	0.0	-2.3	18.6*	10.7*
STD ERR OF DP		2.4	2.8	2.1	2.4	1.1	1.1	2.7	0.8	3.9	3.6	1.9	1.4	3.5	3.6	2.1	4.6	3.4	2.4	3.5
P-VALUE	59.4	44.8	63.3	62.0	65.6	61.5	57.2	31.2	65.6	37.9	47.5	60.0	72.8	29.2	49.5	56.9	59.4	57.0	78.0	70.1
STD ERR OF P	1.4	2.5	3.4	2.4	2.7	1.8	1.8	2.9	1.3	3.9	3.8	2.1	1.8	3.4	3.7	2.2	5.0	3.7	2.7	3.6
AGE: 17																				
DELTA-P	72.0	-10.1*	1.5	1.5	5.7*	-0.0	0.0	-28.0*	5.5*	-25.5*	-19.7*	-1.6	14.8*	-18.1*	-7.3	-0.6	1.7	-5.1	5.7	17.5*
STD ERR OF DP		3.2	2.4	2.1	1.8	1.2	1.1	3.1	0.8	4.3	2.7	1.6	1.2	5.8	4.6	1.9	4.3	5.9	3.6	1.8
P-VALUE	72.0	61.9	73.4	73.5	77.6	71.9	72.0	43.9	77.5	46.5	52.3	70.3	86.8	53.9	64.7	71.3	73.7	66.8	77.7	89.4
STD ERR OF P	1.3	3.9	2.8	2.3	1.7	1.9	1.6	3.3	1.4	4.7	2.9	1.9	1.4	5.9	4.8	2.1	4.9	6.2	3.6	1.3
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	5.3	1.4	-0.7	-0.2	-0.3	-1.1*	1.1*	0.4	-0.3	2.1	-0.0	-0.8	-0.4	2.2	1.2	-0.8	-0.5	2.3	-1.2	-0.4
STD ERR OF DP		1.2	0.8	0.8	1.0	0.5	0.5	1.1	0.2	2.1	1.3	0.8	0.6	1.6	2.0	0.7	1.5	1.7	1.3	1.8
STD ERR OF P	0.5	1.4	0.8	0.9	1.1	0.6	0.8	1.3	0.6	2.3	1.4	0.8	1.0	1.5	2.2	0.8	1.7	1.8	1.4	1.9
AGE: 17																				
DELTA-P	4.9	1.3	-0.7	0.5	-1.1	0.2	-0.2	2.5	-0.4	3.9*	5.6*	0.3	-2.5*	0.9	-1.1	1.6*	-0.5	-0.5	1.1	-3.9*
STD ERR OF DP		1.1	1.1	0.9	0.8	0.6	0.5	1.3	0.2	1.9	1.7	1.0	0.5	1.5	1.4	0.8	1.0	1.5	1.7	0.7
STD ERR OF P	0.6	1.2	1.3	1.0	0.9	0.8	0.8	1.4	0.6	2.1	1.9	1.1	0.6	1.5	1.5	1.2	1.0	1.4	1.8	0.6

Report #: UA06

NAEP #: A21020-23

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17
Package-Exercise:		08-04	06-20
National P-value:			
	UA06	21.65	25.61

Timing: (in seconds)

UA06	Exercise total:	47	47

EXERCISE: UA06

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.3	-0.1	0.2	0.2	-0.3#	0.1	0.1	0.5	-0.1*	0.3	0.3	-0.2	-0.0	0.8	-0.1	-0.1	-0.2	0.5	-0.0	-0.3#
STD ERR OF DP		0.2	0.2	0.3	0.1	0.1	0.1	0.4	0.1	0.4	0.4	0.2	0.1	0.7	0.3	0.2	0.2	0.7	0.3	0.1
STD ERR OF P	0.1	0.1	0.2	0.4	0.0	0.2	0.2	0.5	0.1	0.5	0.4	0.2	0.2	0.8	0.2	0.2	0.1	0.8	0.3	0.0
AGE: 17																				
DELTA-P	0.8	-0.4	0.4	-0.5*	0.5	0.7#	-0.7#	1.1	-0.2	1.2	0.1	-0.2	-0.3	1.9*	0.5	-0.3	-0.5	-0.5	0.2	-0.1
STD ERR OF DP		0.3	0.3	0.2	0.4	0.2	0.2	0.7	0.1	0.7	0.5	0.3	0.2	0.9	0.3	0.3	0.3	0.3	0.6	0.5
STD ERR OF P	0.2	0.4	0.4	0.2	0.5	0.4	0.1	0.8	0.2	0.7	0.6	0.4	0.2	1.0	0.3	0.3	0.3	0.1	0.7	0.6
RESPONSE: 10* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	21.7	1.8	-6.3*	1.4	3.3	-1.4	1.4	-14.4#	3.3#	-14.5#	-4.1	0.4	6.5#	-12.5#	-3.1	-0.1	5.7	-2.3	-2.2	8.2
STD ERR OF DP		4.6	2.6	3.6	3.0	1.1	1.2	2.1	0.6	2.6	3.9	2.0	1.7	3.4	6.1	2.6	5.7	4.9	3.1	5.3
P-VALUE	21.7	23.4	15.3	23.1	24.9	20.3	23.0	7.2	25.0	7.2	17.5	22.1	28.1	9.1	18.5	21.6	27.3	19.4	19.5	29.8
STD ERR OF P	2.0	5.8	2.3	4.2	3.1	2.1	2.5	1.7	2.4	2.7	3.9	2.2	3.2	2.9	6.7	3.1	6.7	5.0	3.0	5.4
AGE: 17																				
DELTA-P	25.6	-3.9*	-7.7#	0.1	9.9#	-1.5	1.4	-15.6#	3.0#	-10.2#	-12.6#	0.6	6.2#	-8.6*	-6.0	-0.8	-2.8	-4.6	0.2	17.2#
STD ERR OF DP		1.9	2.1	2.5	2.7	1.6	1.5	2.3	0.5	3.0	2.8	1.3	1.2	3.6	4.3	1.7	3.6	5.5	2.7	5.0
P-VALUE	25.6	21.7	17.9	25.7	35.5	24.1	27.0	10.0	28.7	15.4	13.0	26.2	31.8	17.0	19.6	24.8	22.8	21.0	25.8	42.8
STD ERR OF P	1.4	1.7	2.0	3.1	3.4	1.7	2.4	2.2	1.7	2.8	2.7	2.2	2.0	3.5	4.7	1.5	3.7	5.7	2.6	5.8
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	4.9	-1.7*	1.3	-0.6	1.2	1.0*	-1.0*	0.5	-0.5	3.5	-2.0	-1.0	-0.6	7.2*	-1.1	0.1	-1.1	-2.1	-1.1	1.2
STD ERR OF DP		0.8	1.0	1.0	1.1	0.5	0.5	1.3	0.3	2.0	1.2	0.7	0.5	3.0	1.6	0.8	1.3	1.8	1.2	2.4
STD ERR OF P	0.6	0.8	1.3	1.1	1.3	0.9	0.6	1.3	0.6	2.3	1.1	0.8	0.7	3.2	1.7	0.7	1.5	1.9	1.3	2.6
AGE: 17																				
DELTA-P	2.9	-0.5	0.3	-0.8	0.9	-0.5	0.5	2.7	-0.5#	1.8	0.8	-0.6	-0.7	2.2	-0.6	0.2	-1.4*	-0.9	0.8	-0.6
STD ERR OF DP		0.7	0.5	0.5	0.6	0.4	0.3	1.8	0.2	1.2	1.5	0.5	0.4	2.0	0.6	0.5	0.7	1.2	1.0	1.3
STD ERR OF P	0.3	0.8	0.5	0.7	0.7	0.5	0.5	1.9	0.4	1.3	1.5	0.6	0.5	2.0	0.6	0.6	0.7	1.2	1.1	1.3

Report #: UA07

NAEP #: A21029-1

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple part short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 04-20
National P-values:
UA07A-B 69.07

Timing: (in seconds)
UA07A Part total: 19
UA07B Part total: 19
UA07 Exercise total: 38

EXERCISE: UA07

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective II.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	69.1	-8.7*	-3.7	2.4	9.4*	-3.7*	3.5*	-28.7*	6.8*	-15.2*	-9.0	1.9	9.9*	-28.8*	-15.9*	-1.2	5.9	-3.6	8.3*	18.2*
STD ERR OF DP		2.9	2.8	2.4	1.9	1.3	1.2	3.2	1.1	4.6	6.5	2.1	1.5	7.3	5.9	2.2	3.2	4.0	3.1	2.4
P-VALUE	69.1	60.3	65.4	71.5	78.4	65.4	72.5	40.4	75.9	53.9	60.1	71.0	78.9	40.2	53.2	67.8	75.0	65.5	77.4	87.3
STD ERR OF P	1.5	3.4	3.3	3.0	1.7	1.8	2.0	3.5	1.3	5.0	6.5	2.6	1.6	7.4	6.1	2.5	3.4	4.2	3.3	1.8

Report #: NA08

NAEP #: A21035-12

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		9	13
Package-Exercise:		10-10	11-02
National P-value:			
	NA08	88.40	96.09

Timing: No paced tape was used in this individually administered exercise.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
EXERCISE: UA08																				
This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective I.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.3	-0.0	0.2	-0.1*	0.1	-0.2	0.2	0.1	-0.0	-0.3*	-0.3*	0.3	-0.2*	0.8	0.2	-0.3*	0.3	0.3	-0.3*	-0.3*
STD ERR OF DP		0.2	0.3	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.1	0.7	0.4	0.1	0.4	0.5	0.1	0.1
STD ERR OF P	0.1	0.2	0.4	0.0	0.3	0.1	0.2	0.3	0.1	0.0	0.0	0.4	0.1	0.7	0.4	0.0	0.4	0.6	0.0	0.0
AGE: 13																				
DELTA-P	0.1	-0.1	-0.1	0.1	-0.1	0.1	-0.1	0.3	-0.1	0.6	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.3	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.2	0.0	0.1	0.0	0.4	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	88.4	-5.0*	-2.5	1.9	5.5*	0.9	-0.9	-9.0*	2.1*	-10.5*	-2.3	0.1	4.3*	-8.3*	-6.4*	-1.9	0.3	-1.1	4.8*	10.0*
STD ERR OF DP		1.6	1.7	1.6	1.3	0.8	0.7	2.2	0.4	3.7	4.0	1.4	0.9	3.5	3.1	1.2	2.2	2.7	1.6	1.0
P-VALUE	88.4	83.4	85.9	90.3	93.9	89.3	87.6	79.5	90.5	78.0	86.1	88.5	92.7	80.1	82.0	86.5	88.7	87.3	93.2	98.4
STD ERR OF P	0.9	1.9	2.0	1.9	1.2	1.1	1.2	2.6	0.9	3.9	4.3	1.7	0.8	3.6	3.3	1.5	2.3	2.9	1.5	0.7
AGE: 13																				
DELTA-P	96.1	0.4	0.4	-0.6	-0.0	-0.1	0.1	-1.7	0.3	-0.4	-1.4	-0.2	0.7	-1.1	-3.0	0.6	1.2	-0.9	0.4	0.7
STD ERR OF DP		0.8	0.7	1.0	0.8	0.3	0.3	1.3	0.2	1.5	1.4	0.7	0.6	1.3	3.0	0.7	0.7	1.8	1.2	1.4
P-VALUE	96.1	96.5	96.5	95.5	96.1	96.0	96.2	94.4	96.4	95.7	94.7	95.9	96.8	95.0	93.1	96.7	97.3	95.2	96.4	96.8
STD ERR OF P	0.5	0.9	0.7	1.3	0.9	0.7	0.5	1.3	0.6	1.5	1.5	1.9	0.7	1.2	3.3	0.7	0.6	1.9	1.2	1.4
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	0.4	-0.1	0.3	0.0	-0.2	0.1	-0.1	0.5	-0.1	0.0	-0.4*	-0.3	-0.3*	1.1	-0.4*	-0.0	-0.2	0.2	-0.3	-0.1
STD ERR OF DP		0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.1	0.4	0.1	0.2	0.1	0.8	0.1	0.2	0.2	0.5	0.2	0.3
STD ERR OF P	0.1	0.2	0.3	0.3	0.1	0.2	0.2	0.4	0.1	0.4	0.0	0.2	0.1	0.8	0.0	0.2	0.2	0.6	0.2	0.3
AGE: 13																				
DELTA-P	0.2	-0.2*	0.4	-0.1	-0.2*	0.1	-0.1	-0.1	-0.0	0.3	0.3	0.1	-0.2*	0.1	0.7	-0.2*	-0.2*	0.2	0.1	-0.2*
STD ERR OF DP		0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.4	0.4	0.1	0.1	0.2	0.5	0.1	0.1	0.3	0.2	0.1
STD ERR OF P	0.1	0.0	0.3	0.1	0.0	0.1	0.1	0.1	0.1	0.4	0.5	0.2	0.0	0.2	0.6	0.0	0.0	0.3	0.2	0.0

Report #: UA09

NAEP #: A23001-2

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13
Package-Exercise:		09-22
National P-value:		
	UA09	49.87

Timing: (in seconds)
UA09 Exercise total: 25

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                                 NATION |              REGION            |      SEX       |     RACE       |    PARENTAL EDUCATION       |              SIZE-AND-TYPE OF COMMUNITY
                                        | SOUTH                   NORTH  |                |                |          SOME   GRAD   POST |   LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                                 -------|  EAST   WEST CENTRAL    EAST   |  MALE  FEMALE  | BLACK   WHITE  | NO HS     HS     HS     HS  |  METRO  RURAL PLACES  CITY BIG CTY FRINGE METRO

EXERCISE: UA09

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective III.

RESPONSE:  00    AGE: 13         TEXT:  No Response.

    DELTA-P                        2.6     2.1    0.1   -1.2   -0.9      0.4   -0.4     -1.0   -0.1      1.7    0.2    0.3   -1.3*     0.9   -0.9    0.3   -0.4    1.0    0.3   -1.4
    STD ERR OF DP                          2.2    0.9    0.9    1.0      0.4    0.4      1.0    0.3      2.0    1.7    0.8    0.5      1.7    1.2    1.4    1.1    1.7    1.1    1.0
    STD ERR OF P                   0.8     2.9    0.8    0.6    0.9      0.8    0.9      0.7    0.9      2.3    1.7    1.4    0.4      1.7    1.2    2.0    0.9    1.7    1.0    0.7

RESPONSE:  01*   AGE: 13         TEXT:  All Acceptable Responses.

    DELTA-P                       49.9     1.8   -5.9*  -4.7    9.6#    -6.7#   7.3#   -15.4#   2.8#   -10.5*  -5.2    0.4    7.2#   -19.5#  -2.4    1.6    3.9   -5.7   -2.7   11.4
    STD ERR OF DP                          3.1    2.5    3.2    3.1      1.1    1.1      3.0    0.6      5.2    3.9    1.9    1.4      5.0    5.1    2.6    3.2    3.9    4.4    5.9
    P-VALUE                       49.9    51.7   44.0   45.2   59.4     43.2   57.2     38.5   52.7     39.4   44.7   50.3   57.1     30.4   47.5   51.5   53.7   44.2   47.1   61.3
    STD ERR OF P                   1.7     3.5    2.6    3.9    3.5      2.1    2.0      3.0    2.0      5.2    4.0    2.9    2.1      5.1    5.2    3.3    3.1    4.1    4.8    6.3

RESPONSE:  03    AGE: 13         TEXT:  I Don't Know.

    DELTA-P                        4.2    -1.2    1.3    0.9   -1.2      0.6   -0.6      0.3    0.1     -1.9    0.6    0.4   -0.7      1.1   -1.0    1.6   -1.8*   0.3    0.6   -3.1#
    STD ERR OF DP                          9.8    1.4    1.1    0.8      0.5    0.6      1.2    0.2      1.2    1.6    0.9    0.6      1.5    1.3    1.2    0.9    1.4    1.5    0.8
    STD ERR OF P                   0.6     0.7    1.7    1.3    0.7      1.0    0.6      1.1    0.7      1.1    1.7    1.3    0.8      1.4    1.1    1.7    0.7    1.3    1.6    0.6
```

Report #: NA10

NAEP #: A23009-23

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:		13	17
Package-Exercise:		04-24	06-02
National P-value:			
	NA10	41.14	57.45

Timing: (in seconds)

NA10	Exercise total:	24	23

886

EXERCISE: UA10

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	4.1	-0.9	5.8	-2.4	-2.5	1.4*	-1.5*	4.3*	-1.6*	6.8*	-2.9*	-0.7	-1.5	15.4	-0.9	-2.4	-2.4	-2.1	2.6	-3.5*
STD ERR OF DP		1.5	3.7	1.4	1.4	0.5	0.6	1.9	0.6	3.4	1.4	0.5	1.1	9.8	1.4	1.3	1.4	1.6	3.6	1.4
STD ERR OF P	1.3	1.0	5.0	0.9	0.5	1.8	0.9	2.4	0.9	4.2	0.7	1.4	1.3	10.9	1.5	0.5	0.6	1.1	4.3	0.5
AGE: 17																				
DELTA-P	1.8	0.8	1.0*	-1.1*	-0.3	-0.0	0.0	3.9*	-0.9*	2.5*	0.3	-0.9*	-0.8*	0.9	1.1	-0.6	0.4	0.1	0.3	-0.5
STD ERR OF DP		0.6	0.5	0.4	0.6	0.4	0.3	1.4	0.3	1.2	0.9	0.4	0.3	1.3	0.7	0.4	0.7	1.7	1.0	0.7
STD ERR OF P	0.3	0.7	0.5	0.3	0.7	0.4	0.5	1.6	0.2	1.3	0.9	0.3	0.3	1.3	0.7	0.3	0.7	1.8	1.1	0.7
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	41.1	-8.3*	-14.7*	5.3	15.8*	1.8	-2.0	-23.0*	6.0*	-15.0*	-8.2*	-0.5	11.6*	-20.2*	-5.9	3.2	-5.5	2.8	2.8	18.8*
STD ERR OF DP		3.1	2.5	3.0	2.6	1.1	1.1	2.8	0.9	4.5	2.7	1.9	1.7	3.5	4.7	2.3	4.3	6.0	5.5	6.2
P-VALUE	41.1	32.8	26.5	46.4	57.0	43.0	39.2	18.2	47.2	26.1	32.9	40.6	52.8	20.9	35.2	44.3	35.7	44.0	43.9	60.0
STD ERR OF P	1.8	3.4	2.7	3.7	2.9	2.0	2.2	2.6	1.9	5.0	3.0	2.6	2.3	3.3	5.2	2.9	4.6	6.4	5.8	6.5
AGE: 17																				
DELTA-P	57.5	-9.1*	-3.4	6.0*	3.7	1.0	-0.9	-27.2*	4.6*	-17.3*	-15.6*	-1.3	11.1*	-16.7*	-1.8	-1.9	-1.7	-0.6	5.7*	11.1*
STD ERR OF DP		2.4	2.1	2.1	2.1	1.4	1.3	2.8	0.7	4.3	3.0	1.6	1.4	3.1	3.5	1.9	2.0	3.9	2.6	3.4
P-VALUE	57.5	48.3	54.1	63.4	61.2	58.4	56.5	30.2	62.1	40.2	41.8	56.2	68.5	40.7	55.6	55.6	55.8	56.9	63.2	68.5
STD ERR OF P	1.2	2.5	2.4	2.6	2.4	2.0	1.7	2.8	1.4	4.4	3.2	2.0	1.6	3.2	3.6	2.3	1.7	3.9	2.8	3.7
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	14.4	-1.0	4.7*	1.4	-5.5*	0.0	-0.0	6.4*	-2.2*	8.7*	2.0	-1.0	-5.3*	9.5*	0.9	-2.6	2.2	1.0	-1.2	-4.0
STD ERR OF DP		1.6	1.9	1.7	1.4	0.8	0.9	2.1	0.5	3.7	2.2	1.2	1.0	3.8	2.9	1.5	3.1	3.0	2.5	3.4
STD ERR OF P	1.0	1.6	2.3	2.0	1.6	1.2	1.5	2.3	1.0	3.9	2.4	1.6	0.9	4.1	3.0	1.6	3.2	3.2	2.8	3.4
AGE: 17																				
DELTA-P	6.8	3.8*	1.2	-2.0*	-1.9*	-0.5	0.4	10.5*	-1.4*	7.4*	6.3*	-0.1	-4.0*	6.7*	-0.5	-0.1	-0.0	-1.5	0.2	-3.0
STD ERR OF DP		1.5	1.1	0.9	0.8	0.7	0.7	2.3	0.3	2.5	2.0	0.9	0.7	3.4	1.6	0.8	1.1	2.1	1.4	1.8
STD ERR OF P	0.6	1.8	1.2	1.0	0.8	0.9	0.9	2.6	0.6	2.6	2.1	1.2	0.7	3.5	1.8	1.0	1.1	2.1	1.5	1.8

Report #: UA11

NAEP #: C10065-12

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		01-11	06-27
National P-value:			
	UA11	9.07	65.11

Timing: (in seconds)
UA11 Exercise total: 38 38

EXERCISE: WA11

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	5.4	-0.4	0.7	0.3	-0.6	1.4*	-1.4*	2.3	-1.0*	7.8*	1.1	-0.6	-1.4	1.9	-0.6	0.8	1.7	-0.7	-3.5*	-0.2
STD ERR OF DP		1.0	1.1	0.9	1.1	0.5	0.5	1.3	0.3	2.9	1.8	0.8	0.8	2.1	1.3	0.8	2.1	1.4	0.9	1.5
STD ERR OF P	0.6	1.1	1.3	0.9	1.4	0.9	0.6	1.4	0.5	3.1	2.0	1.0	1.0	2.2	1.3	1.0	2.4	1.3	0.7	1.6
AGE: 13																				
DELTA-P	1.8	-1.2	3.3	-0.6	-1.5*	-0.1	0.1	4.7	-0.6	-1.2	1.4	0.4	-1.1*	4.8	-0.8	-1.7*	0.2	1.2	3.4	-1.8*
STD ERR OF DP		0.6	1.7	0.7	0.6	0.3	0.2	3.2	0.5	0.8	1.1	0.7	0.4	5.2	0.8	0.6	1.3	2.1	3.9	0.6
STD ERR OF P	0.6	0.3	2.2	0.7	0.2	0.7	0.6	3.3	0.7	0.6	1.4	1.1	0.3	5.3	0.6	0.1	1.4	2.2	4.3	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	9.1	-3.4*	-0.2	2.4	0.6	-0.7	0.7	-7.1*	1.8*	-6.0*	-2.7	-0.1	4.4*	-8.1*	-4.8*	-0.7	0.5	0.1	6.3	2.0
STD ERR OF DP		1.7	1.5	1.4	1.5	0.7	0.7	1.1	0.3	1.7	2.1	1.2	1.0	1.4	2.3	1.4	2.3	3.1	3.4	2.3
P-VALUE	9.1	5.7	8.9	11.5	9.7	8.4	9.8	2.0	10.9	3.1	6.4	9.0	13.5	1.0	4.3	8.3	9.6	9.1	15.4	11.0
STD ERR OF P	0.9	2.0	1.8	1.5	1.8	1.0	1.3	0.9	1.1	1.5	2.2	1.5	1.6	1.0	2.2	1.6	2.6	3.3	3.6	2.4
AGE: 13																				
DELTA-P	65.1	-8.9*	-8.9*	9.2*	6.5*	-1.1	1.0	-32.6*	5.9*	-17.5*	-14.0*	3.4	9.6*	-19.7*	2.1	1.1	-1.0	-8.4*	-2.3	15.2*
STD ERR OF DP		3.0	2.8	2.6	2.3	1.0	0.9	3.8	0.8	4.8	3.5	1.8	1.6	5.6	4.3	2.4	3.7	4.0	4.8	3.0
P-VALUE	65.1	56.2	56.3	74.3	71.6	64.0	66.2	32.5	71.0	47.7	51.2	68.5	74.7	45.5	67.2	66.2	64.1	56.7	62.9	80.3
STD ERR OF P	1.6	3.3	3.3	3.2	2.4	1.9	1.8	4.1	1.7	5.4	4.2	2.5	1.9	5.5	4.6	3.3	4.0	3.7	5.1	2.9
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	16.0	-2.6	1.8	-2.1	2.6	-1.7	1.7	-4.2	0.3	6.2	-2.1	-0.4	-1.7	-3.3	4.0	0.4	-1.8	3.4	-4.2	1.3
STD ERR OF DP		1.9	1.8	1.6	2.2	0.9	0.9	2.2	0.5	4.4	3.5	1.5	1.3	2.6	4.1	1.9	2.2	3.6	2.2	3.8
STD ERR OF P	1.1	2.1	2.0	1.7	2.7	1.2	1.5	2.3	1.2	4.6	3.4	2.0	1.6	2.5	4.1	2.3	2.2	3.9	2.1	4.1
AGE: 13																				
DELTA-P	1.7	-0.1	1.2*	-0.9*	-0.1	-0.2	0.1	-0.0	-0.2	1.1	1.8	-0.4	-1.0*	0.7	-0.5	0.3	-0.6	0.8	0.5	-0.9
STD ERR OF DP		0.4	0.5	0.4	0.5	0.3	0.3	0.6	0.1	1.4	1.6	0.5	0.3	1.3	1.0	0.4	0.5	0.9	0.8	0.5
STD ERR OF P	0.3	0.4	0.7	0.5	0.6	0.4	0.4	0.5	0.3	1.5	1.6	0.5	0.3	1.4	1.0	0.5	0.5	0.9	0.8	0.5

Report #: UA12

NAEP #: C50026-3A

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		01-11	06-08
National P-value:			
	UA12	69.31	69.67
Timing: (in seconds)			
UA12	Exercise total:	28	*

*Time not limited by paced tape.

EXERCISE: UA12

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	1.7	0.1	0.6	-0.5	-0.3	0.3	-0.2	3.1#	-0.4#	1.1	1.1	-0.9*	-0.5	2.2	-1.4#	-0.7*	0.9	1.8	0.0	-0.7
STD ERR OF DP		0.4	0.6	0.4	0.4	0.3	0.3	1.0	0.1	1.2	0.9	0.4	0.3	1.4	0.4	0.3	0.9	1.2	0.8	0.7
STD ERR OF P	0.3	0.4	0.7	0.5	0.5	0.4	0.4	1.1	0.3	1.3	1.1	0.3	0.4	1.4	0.3	0.4	1.0	1.2	0.9	0.6
AGE: Ad																				
DELTA-P	0.4	0.4	-0.1	-0.4#	0.2	-0.0	0.0	0.2	-0.0	0.2	-0.2	0.1	-0.4#	-0.4#	1.8	-0.0	-0.4#	0.4	-0.4#	-0.4#
STD ERR OF DP		0.4	0.2	0.1	0.1	0.1	0.1	0.4	0.0	0.2	0.1	0.2	0.1	0.1	0.9	0.1	0.1	0.7	0.1	0.1
STD ERR OF P	0.1	0.5	0.3	0.0	0.0	0.2	0.1	0.5	0.1	0.3	0.1	0.2	0.0	0.0	1.0	0.2	0.0	0.8	0.0	0.0
RESPONSE: 10* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	69.3	-5.5*	2.6	2.1	-0.3	5.8#	-5.5#	-33.1#	5.6#	-18.9#	-16.6#	1.1	9.9#	-26.7#	-10.5*	4.4#	-0.9	-7.5	1.5	13.4#
STD ERR OF DP		2.5	3.0	2.2	2.4	1.2	1.3	3.1	0.8	3.9	3.5	1.9	1.5	4.4	4.6	1.6	3.1	4.5	3.2	2.8
P-VALUE	69.3	63.8	71.9	71.4	69.0	75.1	63.8	36.3	74.9	50.5	52.7	70.4	79.3	42.7	58.8	73.7	68.4	61.8	70.8	82.7
STD ERR OF P	1.5	2.6	3.8	2.4	2.7	1.9	1.9	3.2	1.5	4.1	3.7	2.0	1.8	4.4	4.7	2.2	3.0	4.7	3.3	2.8
AGE: Ad																				
DELTA-P	69.7	-5.8	5.4*	0.2	-0.9	8.2#	-7.7#	-30.0#	4.2#	-11.8#	-4.3	3.2	15.5#	-16.9#	-4.2	-0.2	-0.1	1.3	-0.4	13.8#
STD ERR OF DP		3.0	2.2	2.5	2.6	1.3	1.2	4.0	0.8	2.1	2.9	1.8	1.7	4.9	4.5	1.8	3.7	5.3	3.6	3.5
P-VALUE	69.7	63.8	75.0	69.9	68.8	77.9	62.0	39.7	73.9	57.8	65.3	72.9	85.2	52.8	65.4	69.5	69.6	70.9	69.3	83.4
STD ERR OF P	1.5	3.3	2.4	3.1	3.0	2.0	1.9	4.3	1.6	2.8	3.4	2.0	1.6	4.8	4.5	2.5	4.0	5.5	4.0	3.7
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	9.5	1.1	-2.1	1.4	-0.1	-2.4#	2.3#	10.8#	-1.7#	5.5*	6.1#	0.5	-3.8#	8.8#	5.2	-0.3	1.5	0.4	-3.0	-5.8#
STD ERR OF DP		1.7	1.3	1.3	1.4	0.8	0.8	2.9	0.4	2.5	2.4	1.1	0.8	3.4	3.8	0.8	2.2	1.7	1.6	1.5
STD ERR OF P	0.8	1.9	1.5	1.5	1.6	1.0	1.2	3.2	0.8	2.7	2.6	1.3	0.9	3.5	4.1	1.1	2.5	1.6	1.6	1.5
AGE: Ad																				
DELTA-P	15.9	5.0	-5.0#	-1.2	2.2	-5.9#	5.5#	12.4#	-1.9#	7.8#	0.7	-2.2	-9.1#	6.0	0.7	1.5	-1.8	4.0	-3.0	-7.2#
STD ERR OF DP		2.8	1.8	2.0	2.3	1.2	1.1	3.3	0.6	1.4	2.3	1.7	1.3	3.6	3.6	1.5	2.5	5.2	2.2	2.0
STD ERR OF P	1.2	3.2	1.8	2.5	2.9	1.6	1.8	3.7	1.3	2.2	2.6	1.4	1.3	3.8	3.6	2.0	2.8	5.6	2.2	2.0

Report #: UA13

NAEP #: K52029-12

Content Area: A. NUMBER AND NUMERATION CONCEPTS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		03-24	08-02
National P-value:			
	UA13	10.22	77.22

Timing: (in seconds)

UA13	Exercise total:	29	25

EXERCISE: UA13

This unreleased exercise dealt with NUMBER AND NUMERATION CONCEPTS at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.1	0.1	-0.5	0.2	0.2	0.6*	-0.6*	5.0#	-1.0#	1.3	2.8	0.1	-0.6	6.6#	-0.5	-0.3	-1.2*	-0.3	-1.1	-0.4
STD ERR OF DP		0.7	0.6	0.6	0.5	0.3	0.3	1.5	0.2	1.4	2.0	0.7	0.4	1.7	1.0	0.4	0.5	0.8	0.6	1.0
STD ERR OF P	0.3	0.8	0.7	0.8	0.5	0.5	0.4	1.6	0.3	1.5	2.1	0.8	0.4	1.8	1.0	0.6	0.5	0.9	0.5	1.0
AGE: 13																				
DELTA-P	1.5	0.7	1.5#	-1.2#	-1.0#	-0.2	0.2	2.2	-0.5*	1.2	-1.0#	-0.7*	-0.2	1.4	1.8	-0.9*	0.3	1.0	0.0	-1.5#
STD ERR OF DP		0.7	0.6	0.3	0.4	0.3	0.3	1.1	0.2	1.4	0.4	0.4	0.4	1.3	1.5	0.4	0.8	1.3	1.0	0.3
STD ERR OF P	0.3	0.9	0.7	0.2	0.3	0.3	0.5	1.2	0.3	1.5	0.4	0.3	0.6	1.3	1.6	0.3	1.0	1.4	1.0	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	18.2	-5.8*	-2.1	0.1	7.8*	-1.6	1.7	-15.3#	3.3#	-10.7#	-7.9*	0.5	5.9#	-10.9#	-1.4	1.4	2.2	-3.1	-7.5*	11.7*
STD ERR OF DP		2.4	2.4	3.4	3.5	0.8	0.9	1.9	0.6	2.8	3.5	2.4	1.9	2.7	5.5	2.3	4.2	4.1	3.1	5.1
P-VALUE	18.2	12.5	16.1	18.3	26.0	16.6	19.9	2.9	21.5	7.5	10.4	18.7	24.1	7.3	16.9	19.7	20.4	15.2	10.7	30.0
STD ERR OF P	1.8	2.1	2.4	4.3	4.3	1.9	2.1	1.0	2.1	2.2	3.5	3.5	2.9	2.9	5.5	3.2	4.3	4.2	3.0	5.6
AGE: 13																				
DELTA-P	77.2	-4.1	-7.9#	5.5*	6.6#	-0.1	0.1	-26.6#	5.3#	-13.3#	-4.3	-0.4	9.6#	-22.8#	-7.7	-0.1	3.3	-1.7	4.2	14.0#
STD ERR OF DP		2.7	2.1	2.5	2.2	0.9	0.9	3.7	0.8	3.5	3.2	1.5	1.1	3.5	5.4	2.1	3.1	3.7	2.4	2.4
P-VALUE	77.2	73.1	69.3	82.7	83.8	77.1	77.3	50.6	82.5	64.0	73.0	76.9	86.9	54.4	69.5	77.1	80.5	75.5	81.4	91.2
STD ERR OF P	1.4	3.2	2.1	3.0	2.4	1.7	1.6	4.1	1.3	4.0	3.6	1.4	1.5	3.5	5.8	2.3	3.5	3.7	2.3	2.4
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	19.5	-1.2	4.4	-0.9	-2.8	-0.8	0.9	3.3	-0.4	3.3	2.8	-0.9	-4.8*	15.9#	-9.4#	0.4	-5.9*	-4.5	8.3*	-5.4
STD ERR OF DP		3.0	3.8	2.8	2.5	1.0	1.0	2.4	0.6	7.1	5.1	2.0	2.0	4.5	3.4	2.7	2.5	3.5	3.6	3.1
STD ERR OF P	1.9	3.2	4.9	3.2	2.3	2.4	1.8	2.3	2.2	8.4	6.3	2.3	2.0	4.3	3.2	4.1	1.8	3.3	3.8	3.2
AGE: 13																				
DELTA-P	2.0	0.3	0.7	-1.0*	0.1	0.4	-0.4	1.7	-0.8#	0.1	-0.8	0.5	-1.2#	1.8	2.6*	-0.1	-0.4	-0.3	-0.6	-1.6#
STD ERR OF DP		0.4	0.7	0.4	0.6	0.3	0.3	1.1	0.2	0.8	0.8	0.5	0.3	1.1	1.3	0.5	0.8	0.8	0.7	0.5
STD ERR OF P	0.3	0.4	0.9	0.4	0.7	0.5	0.4	1.1	0.3	0.8	0.8	0.6	0.4	1.1	1.4	0.6	0.9	0.9	0.8	0.4

Report #: UB01

NAEP #: B11002-12

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		01-24	07-13
National P-value:			
	UB01	86.06	97.74

Timing: (in seconds)

UB01	Exercise total:	31	32

EXERCISE: UB01

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective II .

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.1	-1.0	2.5	-0.5	-1.1	0.7*	-0.8#	-0.6	-0.9*	1.6	1.5	-1.0	-1.2#	9.3	-1.3	0.9	-1.6*	-1.0	-1.5	-1.9#
STD ERR OF DP		0.8	1.6	0.9	0.7	0.3	0.3	0.9	0.4	1.7	2.7	0.5	0.4	7.3	0.8	0.8	0.7	0.9	0.8	0.6
STD ERR OF P	0.6	0.7	2.1	0.9	0.4	0.8	0.5	0.6	0.3	2.0	2.8	0.4	0.5	7.8	0.5	0.9	0.3	0.8	0.5	0.2
AGE: 13																				
DELTA-P	0.3	-0.3*	0.2	0.1	-0.0	0.2	-0.2	0.7	-0.1	0.3	0.1	-0.0	-0.2	1.0	0.4	-0.3*	-0.3*	0.4	-0.0	-0.3*
STD ERR OF DP		0.1	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.5	0.3	0.1	0.1	0.9	0.5	0.1	0.1	0.4	0.2	[illegible]
STD ERR OF P	0.1	0.0	0.3	0.3	0.2	0.2	0.1	0.5	0.1	0.6	0.4	0.2	0.1	0.9	0.6	0.0	0.0	0.5	0.2	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	86.1	-6.6#	-2.3	2.9*	5.1#	-1.3*	1.3*	-16.3#	4.6#	-12.2#	-13.9#	3.4*	4.4#	-27.0#	-5.5	-2.0	4.8*	3.8*	6.0#	7.3#
STD ERR OF DP		1.9	1.7	1.4	1.2	0.6	0.6	3.2	0.8	3.9	5.4	1.6	1.1	6.6	3.2	1.4	2.1	1.6	2.0	1.5
P-VALUE	86.1	79.5	83.7	89.0	91.1	84.8	87.4	69.8	90.7	73.9	72.2	89.5	90.4	59.1	80.6	84.1	90.8	89.8	92.0	93.4
STD ERR OF P	0.9	2.3	2.0	1.6	1.2	1.2	1.1	3.6	0.9	4.2	5.6	1.5	1.3	6.8	3.4	1.9	2.2	1.5	1.9	1.3
AGE: 13																				
DELTA-P	97.7	-1.5*	0.3	0.7	0.3	-0.4	0.4	-4.8#	0.9#	-3.7*	-0.5	0.2	1.3#	-7.6#	-1.1	1.1#	0.6	0.6	0.3	1.4*
STD ERR OF DP		0.7	0.6	0.5	0.7	0.3	0.3	1.0	0.2	1.7	0.9	0.4	0.3	2.7	0.8	0.4	0.7	0.8	0.7	0.7
P-VALUE	97.7	96.3	98.0	98.4	98.1	97.4	98.1	92.9	98.6	94.0	97.3	98.0	99.0	90.2	96.7	98.8	98.3	98.3	98.0	99.1
STD ERR OF P	0.3	0.8	0.6	0.4	0.8	0.5	0.4	1.1	0.3	1.8	0.9	0.4	0.4	2.9	0.8	0.4	0.7	0.8	0.7	0.6
RESPONSE: 99 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	0.9	0.2	0.4	-0.6*	0.1	0.2	-0.2	0.6	-0.1	1.2	0.9	-0.4	-0.3	1.4	0.7	0.2	-0.7*	-0.7#	-0.1	-0.1
STD ERR OF DP		0.4	0.4	0.2	0.4	0.2	0.2	0.7	0.1	1.4	1.1	0.3	0.3	1.0	0.8	0.3	0.3	0.3	0.4	0.7
STD ERR OF P	0.2	0.5	0.5	0.2	0.5	0.3	0.3	0.8	0.2	1.5	1.1	0.2	0.3	1.0	0.8	0.4	0.2	0.2	0.4	0.8
AGE: 13																				
DELTA-P	0.0	0.1	-0.0	-0.1	-0.1	-0.1	0.1	-0.1	0.0	0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1	0.2	-0.1
STD ERR OF DP		0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
STD ERR OF P	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0

Report #: U802

NAEP #: B11005-1

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type:	Multiple choice	
Scoring Type:	Machine	
Administration Mode:	Group	
Age:		9
Package-Exercise:		04-30
National P-value:		
	U802	74.40

Timing: (in seconds)
U802 Exercise total: 37

EXERCISE: UB02

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.1	0.2	-0.1	-0.1	0.1	0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.2	-0.0	-0.1	-0.1	0.1	0.1
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.2
STD ERR OF P	0.1	0.2	0.0	0.0	0.2	0.1	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.3	0.1	0.0	0.0	0.3	0.2
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	74.4	-8.3*	-1.6	3.5	5.5*	-2.9*	2.7*	-18.3*	4.3*	-5.1	-11.2*	4.0	5.9*	-10.1	-9.2*	0.1	-0.5	-3.6	4.8	10.5*
STD ERR OF DP		2.5	2.2	1.9	1.9	1.1	1.0	2.9	0.7	4.0	5.5	2.1	1.0	5.7	2.9	2.1	3.3	4.7	3.7	2.7
P-VALUE	74.4	66.1	72.8	77.9	79.9	71.5	77.1	56.1	78.7	69.3	63.2	78.4	80.3	64.3	65.2	74.5	73.9	70.8	79.2	84.9
STD ERR OF P	1.3	3.0	2.5	2.4	1.9	1.9	1.4	3.2	1.2	4.2	5.8	2.1	1.4	6.0	2.8	2.3	3.6	4.9	4.0	2.5
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	4.3	1.2	1.5	-0.4	-2.2*	0.2	-0.2	2.3	-0.6*	3.9	-1.1	-3.3*	-2.5*	1.4	-0.3	0.6	0.9	-1.3	-0.5	-1.8
STD ERR OF DP		0.8	0.9	0.9	0.7	0.6	0.5	1.2	0.2	2.2	1.5	0.5	0.6	1.9	1.3	0.7	1.0	1.2	1.4	1.1
STD ERR OF P	0.5	0.9	1.0	1.1	0.7	0.7	0.7	1.5	0.5	2.4	1.5	0.3	0.5	2.1	1.3	0.9	1.1	1.2	1.5	1.0

Report #: UB03

NAEP #: B11008-23

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		13	17
Package-Exercise:		06-33	06-21
National P-value:			
	UB03	67.16	80.54

Timing: (in seconds)			
UB03	Exercise total:	60	57

EXERCISE: NB03

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective V.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	2.9	-2.7*	4.5	0.3	-2.4*	0.3	-0.2	5.2	-0.7	-1.8	-1.1	-0.6	-0.3	8.2	-2.9*	-2.8*	1.3	0.5	1.9	1.2
STD ERR OF DP		1.1	2.7	1.7	1.1	0.3	0.3	4.7	0.7	1.3	0.8	0.8	0.7	10.7	1.1	1.1	2.7	2.8	4.6	3.7
STD ERR OF P	1.1	0.2	3.5	2.1	0.4	1.2	1.0	5.2	1.0	1.1	0.8	1.0	1.3	11.3	0.0	0.1	2.9	2.9	4.7	4.1
AGE: 17																				
DELTA-P	0.4	0.1	-0.2	0.2	-0.1	0.3*	-0.3*	1.0	-0.1	-0.4*	0.4	0.0	-0.1	0.1	-0.4*	-0.0	0.5	0.2	-0.4*	0.2
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.6	0.1	0.1	0.5	0.2	0.2	0.3	0.1	0.2	0.5	0.6	0.1	0.4
STD ERR OF P	0.1	0.4	0.2	0.3	0.2	0.3	0.1	0.6	0.1	0.0	0.5	0.2	0.2	0.3	0.0	0.3	0.6	0.6	0.0	0.4
RESPONSE: 04* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	67.2	1.2	-6.3*	0.9	4.3	-0.5	0.5	-15.7*	3.4*	-10.7	-7.0	-3.1	9.0*	-21.3*	5.1	4.9*	-5.9	-7.1	-0.3	6.4
STD ERR OF DP		2.8	2.9	2.5	2.6	1.2	1.1	3.8	0.6	5.6	4.6	1.6	1.2	6.4	4.0	1.9	4.5	4.3	4.4	4.3
P-VALUE	67.2	68.4	60.8	68.1	71.5	66.6	67.7	51.5	70.6	56.5	60.2	64.1	76.1	45.9	72.3	72.1	61.2	60.1	66.9	73.6
STD ERR OF P	1.6	3.2	3.4	3.0	3.0	1.8	2.1	3.9	1.7	5.9	5.1	2.1	1.9	6.6	4.2	2.4	4.7	4.5	4.4	4.8
AGE: 17																				
DELTA-P	80.5	-2.9*	0.2	1.4	0.7	-0.2	0.2	-15.0*	3.1*	-9.0*	-16.0*	0.4	7.2*	-15.6*	1.9	-1.2	-2.8	3.2	3.6	7.4*
STD ERR OF DP		1.4	1.7	1.4	1.7	1.0	0.9	2.4	0.6	3.3	2.9	1.7	1.1	3.2	2.7	1.2	2.8	3.0	2.6	1.8
P-VALUE	80.5	77.6	80.7	81.9	81.2	80.3	80.8	65.6	83.6	71.5	64.6	81.0	87.7	65.0	82.5	79.4	77.7	83.7	84.2	87.9
STD ERR OF P	0.9	1.5	1.9	1.6	2.1	1.2	1.4	2.6	1.0	3.3	3.1	2.1	1.1	3.3	2.7	1.3	3.0	2.9	2.9	1.9
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	3.4	-0.6	-0.3	1.4	-0.8	-0.5	0.5	3.2	-0.5	-1.1	0.1	0.7	-1.6*	2.8	-0.0	-0.2	1.8	-1.3	-1.2	-1.0
STD ERR OF DP		0.7	0.7	0.9	0.7	0.5	0.5	1.7	0.3	1.3	1.1	0.7	0.5	1.6	1.9	0.5	1.2	1.0	1.0	1.0
STD ERR OF P	0.5	0.7	0.8	1.2	0.7	0.5	0.8	1.8	0.5	1.3	1.2	1.0	0.5	1.6	2.0	0.7	1.2	1.0	1.0	1.1
AGE: 17																				
DELTA-P	2.4	-0.2	0.4	0.7	-0.9	0.8	-0.7*	0.2	0.0	1.6*	2.5*	-0.5	-0.9*	2.3	1.1	0.1	1.0	-2.4*	-1.1	-0.6
STD ERR OF DP		0.6	0.6	0.6	0.5	0.4	0.4	0.8	0.1	0.6	1.2	0.4	0.4	1.8	0.8	0.4	1.5	0.4	0.6	0.6
STD ERR OF P	0.3	0.7	0.7	0.8	0.5	0.6	0.4	0.9	0.4	0.6	1.2	0.5	0.6	1.8	0.9	0.5	1.7	0.0	0.7	0.5

Report #: UB04

NAEP #: 811009-12

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

		9	13
Age:			
Package-Exercise:		08-08	11-06
National P-value:			
	UB04	85.37	95.20

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UD04

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective IV.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 9																				
DELTA-P	85.4	-4.8	0.6	2.7	1.0	1.2	-1.2	-14.7*	3.1*	-6.2	-3.5	-2.5	3.0*	-7.9*	-5.3	-1.9	1.8	0.5	3.8*	6.8*
STD ERR OF DP		2.8	1.7	1.5	1.8	0.8	0.9	2.8	0.6	3.3	3.3	1.3	1.1	3.7	2.8	1.3	2.8	2.9	1.6	2.0
P-VALUE	85.4	80.6	85.9	88.1	86.4	86.5	84.2	70.7	88.5	79.2	81.9	82.9	88.4	77.5	80.1	83.5	87.2	85.9	89.2	92.1
STD ERR OF P	1.1	3.5	1.8	1.5	2.0	1.3	1.6	3.3	1.0	3.5	3.6	1.9	1.3	3.9	3.1	1.8	3.3	2.9	1.7	1.2
AGE: 13																				
DELTA-P	95.2	-0.1	-2.0	1.3	0.5	0.1	-0.1	-3.8*	0.5*	-0.9	-0.1	0.2	-0.1	-5.3*	1.2	0.7	0.2	-0.7	0.2	0.7
STD ERR OF DP		1.0	1.6	0.9	1.2	0.5	0.5	1.2	0.2	1.8	1.4	0.7	0.6	2.4	1.3	0.8	1.1	1.7	1.0	1.2
P-VALUE	95.2	95.1	93.2	96.5	95.7	95.3	95.1	91.5	95.7	94.3	95.1	95.4	95.1	89.9	96.4	95.9	95.4	94.6	95.4	95.9
STD ERR OF P	0.7	1.0	1.9	0.9	1.4	0.9	0.8	1.2	0.7	1.8	1.6	[illegible]	1.0	2.8	1.4	0.9	1.3	2.0	1.3	1.0

Report #: U805

NAEP #: B12012-1

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		08-15
National P-value:		
	U805	68.18

Timing: (in seconds)
U805 Exercise total: 25

EXERCISE: UB05

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective III.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.5	-0.5	0.6	-0.1	0.0	0.4	-0.4	0.7	-0.3	1.7	-0.8	-0.2	-1.1**	1.5	0.6	-0.2	0.3	0.9	-1.2**	-0.6
STD ERR OF DP		0.3	0.6	0.4	0.5	0.3	0.3	0.6	0.2	2.0	0.7	0.6	0.2	1.1	0.7	0.4	0.7	0.9	0.4	0.5
STD ERR OF P	0.3	0.3	0.7	0.5	0.5	0.5	0.3	0.7	0.3	2.1	0.7	0.6	0.2	1.1	0.8	0.4	0.7	1.0	0.3	0.5
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	68.2	-2.6	1.5	-0.6	1.8	-0.8	0.8	-17.4**	3.6*	-12.8**	1.2	1.0	5.5**	-19.8**	-3.8	2.7	3.6	-6.5*	4.1	3.3
STD ERR OF DP		2.4	2.2	2.1	2.6	1.0	0.9	1.7	0.6	5.0	5.2	2.5	1.4	5.0	2.7	1.6	3.4	3.1	2.5	3.7
P-VALUE	68.2	65.6	69.7	67.6	70.0	67.4	68.9	50.8	71.7	55.4	69.4	69.2	73.7	48.4	64.3	70.9	71.8	61.7	72.3	71.5
STD ERR OF P	1.3	2.7	2.4	2.5	3.0	1.7	1.6	2.2	1.3	5.1	5.6	2.6	2.1	5.1	2.6	2.0	3.9	2.9	2.4	4.1
RESPONSE: 99 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	9.5	-2.8**	-0.6	3.6**	-1.1	-2.0*	1.9*	-1.0	-0.1	-4.5*	-3.4	-1.9	-2.4*	3.6	-0.4	-1.5	-1.9	0.1	2.2	2.1
STD ERR OF DP		1.1	1.4	1.2	1.6	1.0	0.9	1.6	0.4	1.9	3.0	1.6	1.1	2.2	1.7	1.1	1.7	2.2	1.5	2.2
STD ERR OF P	0.8	1.0	1.6	1.5	1.9	1.2	1.3	1.7	0.8	1.9	3.0	1.9	1.1	2.3	1.8	1.4	1.8	2.4	1.5	2.5

Report #: UB06

NAEP #: B12015-12

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		01-28	01-30
National P-value:			
	UB06	44.73	73.92

Timing: (in seconds)
UB06 Exercise total: 41 31

EXERCISE: UB06

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective V.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	3.2	-1.1	1.7	-0.7	-0.1	0.6	-0.7	-0.4	-0.3	0.2	-0.1	-0.8	-0.9	11.3	-1.2	-0.8	-0.7	-1.0	-1.2	-0.3
STD ERR OF DP		0.8	1.7	0.7	0.8	0.4	0.4	1.3	0.3	1.5	1.9	0.5	0.6	6.7	1.1	0.7	1.4	1.3	1.0	1.1
STD ERR OF P	0.6	0.7	2.3	0.6	0.7	0.9	0.6	1.1	0.5	1.8	1.7	0.7	0.6	7.2	0.9	0.5	1.4	1.4	1.1	1.0
AGE: 13																				
DELTA-P	2.1	-1.9	2.2	0.2	-0.8	-0.5	0.5	3.8	-1.0	0.8	-0.4	-1.4#	-0.4	18.4	0.1	-2.0*	-1.5	-1.1	-1.6	2.0
STD ERR OF DP		1.0	2.7	1.3	1.0	0.3	0.3	2.7	0.6	2.6	1.0	0.5	0.7	12.3	2.1	1.0	1.0	1.1	1.1	3.5
STD ERR OF P	1.0	0.2	3.5	1.5	0.5	0.7	1.2	3.4	0.7	2.7	1.7	0.6	1.1	13.1	2.0	0.1	0.3	0.7	0.5	3.9
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	44.7	-11.3#	-4.1*	9.0#	4.8*	0.5	-0.5	-21.4#	5.6#	-7.6	-7.0	-2.2	9.4#	-22.9#	-6.4	-1.7	3.5	4.2	4.1	8.3#
STD ERR OF DP		2.0	1.9	2.0	2.2	1.3	1.3	2.6	0.8	4.2	4.8	2.1	1.[illegible]	3.9	6.1	2.2	3.2	4.7	4.2	3.2
P-VALUE	44.7	33.4	40.6	53.7	49.5	45.2	44.2	23.4	50.3	37.2	37.7	42.6	54.[illegible]	21.9	38.4	43.0	48.2	48.9	48.8	53.0
STD ERR OF P	1.2	2.3	2.1	2.4	2.6	1.7	1.8	2.7	1.5	4.6	4.8	2.3	2.[illegible]	3.9	6.6	2.5	3.3	5.1	4.0	3.2
AGE: 13																				
DELTA-P	73.9	-2.5	-4.0	1.8	3.6*	1.8*	-1.9*	-22.1#	5.5#	-12.8	-6.0	2.4	5.6#	-27.2#	-13.9*	1.8	1.8	6.3*	0.7	7.9
STD ERR OF DP		2.1	3.4	2.3	1.8	0.9	0.9	2.9	1.1	6.5	3.6	1.6	1.6	9.5	6.6	2.1	3.1	2.9	3.7	4.1
P-VALUE	73.9	71.4	69.9	75.7	77.5	75.7	72.1	51.9	79.4	61.1	67.9	76.4	79.6	46.8	60.0	75.7	75.8	80.2	74.6	81.8
STD ERR OF P	1.5	2.0	4.3	2.9	1.4	1.5	1.9	3.1	1.2	7.1	4.1	1.8	1.9	10.0	7.1	2.0	3.0	3.2	3.7	4.3
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	17.7	.0	3.2	-4.9*	0.2	-0.9	0.9	0.1	-0.1	4.4	-1.2	-2.5	-4.7#	5.6	7.8	-0.7	-2.7	0.6	-2.7	-0.9
STD ERR OF DP		2.0	2.7	2.3	2.4	0.8	0.8	2.8	0.6	4.6	4.5	1.5	1.2	3.9	6.7	1.9	2.2	3.3	2.4	3.6
STD ERR OF P	1.4	1.9	3.3	2.8	2.8	1.6	1.7	2.9	1.6	5.3	4.0	1.9	1.5	3.9	7.3	2.6	2.1	[illegible]	2.1	3.9
AGE: 13																				
DELTA-P	1.6	0.3	1.1	-0.4	-0.8*	0.1	-0.1	0.9	-0.4*	-0.3	-0.4	-0.3	-0.3	1.8	1.2	0.3	-0.1	-0.5	-0.2	-1.6#
STD ERR OF DP		0.5	0.7	0.6	0.4	0.2	0.3	0.8	0.2	0.8	0.9	0.4	0.3	1.5	1.2	0.7	0.5	0.6	0.5	0.3
STD ERR OF P	0.3	0.5	0.9	0.8	0.2	0.3	0.5	0.8	0.4	0.8	0.9	0.5	0.4	1.6	1.3	0.9	0.4	0.6	0.5	0.0

Report #: UN07

NAEP #: N22001-1234

Content Area: N. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		03-32	04-12	08-28	07-27
National P-value:					
	UN07	0.19	3.25	13.91	20.27

Timing: (in seconds)

		9	13	17	Adult
UN07	Exercise total:	167	107	104	[illegible]*

*Time not limited by paced tape.

EXERCISE: UB07

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.5	0.2	-0.3	-0.6	0.8	0.7#	-0.7#	2.0*	-0.4*	-1.1*	0.0	0.0	-0.6*	1.9	-0.2	-0.0	-0.3	0.4	-0.3	-0.7
STD ERR OF DP		0.6	0.4	0.4	0.6	0.3	0.3	0.8	0.2	0.5	1.4	0.4	0.3	1.2	0.9	0.4	0.6	0.7	0.7	0.6
STD ERR OF P	0.3	0.7	0.4	0.4	0.7	0.5	0.2	1.0	0.3	0.4	1.5	0.6	0.3	1.2	1.5	0.5	0.6	0.7	0.8	0.6
AGE: 13																				
DELTA-P	0.8	0.5	0.1	-0.0	-0.5	-0.1	0.1	1.7*	-0.3*	-0.3	-0.0	-0.3	-0.1	0.7	0.2	0.4	-0.2	-0.8#	-0.2	-0.8#
STD ERR OF DP		0.5	0.3	0.3	0.3	0.2	0.2	0.8	0.1	0.5	0.5	0.2	0.2	0.7	0.5	0.4	0.5	0.2	0.4	0.2
STD ERR OF P	0.2	0.6	0.4	0.4	0.3	0.3	0.3	0.9	0.2	0.6	0.6	0.2	0.3	0.8	0.6	0.5	0.5	0.0	0.5	0.0
AGE: 17																				
DELTA-P	1.9	-0.9	1.2	-0.5	0.2	-0.2	0.2	0.5	-0.4*	0.1	0.7	-0.7	-1.1#	2.2	-1.2	-1.2	-1.5	1.1	5.9	-1.8
STD ERR OF DP		0.8	2.1	0.9	0.9	0.3	0.3	1.2	0.2	0.8	1.0	0.4	0.3	1.5	0.9	0.7	0.8	2.0	5.4	0.8
STD ERR OF P	0.7	0.6	2.8	0.7	0.7	0.7	0.8	1.1	0.6	1.2	1.2	0.3	0.6	1.5	0.6	0.3	0.4	2.0	6.0	0.4
AGE: Ad																				
DELTA-P	0.3	0.0	0.4	-0.3#	-0.1	0.1	-0.1	-0.0	-0.0	-0.2	-0.3#	0.6	-0.3#	-0.3#	-0.3#	0.2	0.2	0.3	-0.3#	-0.3#
STD ERR OF DP		0.3	0.3	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.2	0.5	0.6	0.1	0.1
STD ERR OF P	0.1	0.3	0.3	0.0	0.2	0.2	0.1	0.3	0.1	0.1	0.0	0.4	0.0	0.0	0.0	0.2	0.6	0.6	0.0	0.0
RESPONSE: 10* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	0.2	-0.0	-0.1	-0.2*	0.4	0.2*	-0.2*	-0.2*	0.1#	-0.2*	-0.2*	-0.1	0.4	-0.2*	-0.2*	0.1	-0.2*	-0.2*	-0.2*	0.4
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.3
P-VALUE	0.2	0.2	0.1	0.0	0.6	0.4	0.0	0.0	0.2	0.0	0.0	0.1	0.6	0.0	0.0	0.3	0.0	0.0	0.0	0.6
STD ERR OF P	0.1	0.2	0.1	0.0	0.3	0.2	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.4
AGE: 13																				
DELTA-P	3.3	-1.6*	-1.4*	0.6	2.0	1.3#	-1.4#	-3.3#	0.7#	-3.0#	-3.3#	-0.5	3.2#	-2.7#	0.3	-0.5	0.2	1.2	-0.2	2.8
STD ERR OF DP		0.6	0.6	0.8	1.0	0.5	0.5	0.5	0.1	0.4	0.5	0.5	0.5	0.6	1.1	0.5	0.9	2.1	0.9	3.0
P-VALUE	3.3	1.7	1.9	3.9	5.2	4.6	1.9	-0.0	4.0	0.3	-0.0	2.3	6.4	0.5	3.6	2.8	3.4	4.4	3.1	6.0
STD ERR OF P	0.5	0.6	0.5	0.9	1.3	0.8	0.5	0.0	0.5	0.3	0.0	0.8	0.7	0.4	1.2	0.5	1.0	2.3	0.8	3.1
AGE: 17																				
DELTA-P	13.9	-5.2*	-0.3	0.6	4.2*	4.7#	-4.3#	-10.3#	2.3#	-10.6#	-8.3#	-0.6	6.8#	-7.4#	-3.3	-2.3	4.2	-0.5	1.6	8.4#
STD ERR OF DP		2.5	2.0	1.9	1.9	0.9	0.8	1.5	0.4	1.8	1.7	1.2	1.1	2.2	3.6	1.4	3.7	3.6	3.5	3.0
P-VALUE	13.9	8.7	13.6	14.5	18.1	18.6	9.7	3.6	16.2	3.3	5.6	13.3	20.8	6.6	10.6	11.7	18.1	13.5	15.5	22.3
STD ERR OF P	1.2	3.0	2.3	2.2	2.1	1.7	1.1	1.2	1.4	1.3	1.6	1.6	1.8	2.1	3.7	1.4	4.3	3.7	3.5	3.3
AGE: Ad																				
DELTA-P	20.3	-0.6	0.2	-0.6	1.0	5.8#	-5.4#	-16.1#	2.2#	-8.9#	-4.6*	0.1	11.6#	-7.6*	-7.1#	-1.6	2.5	-1.8	-2.6	15.0#
STD ERR OF DP		2.3	2.0	1.7	2.0	1.0	0.9	1.9	0.5	1.5	2.2	1.6	1.7	3.4	2.1	1.3	3.6	3.5	2.8	3.5
P-VALUE	20.3	19.7	20.5	19.7	21.3	26.1	14.9	4.1	22.5	11.4	15.7	20.4	33.8	12.6	13.2	18.7	22.9	18.5	17.7	35.3
STD ERR OF P	1.1	2.6	2.4	1.9	2.4	1.7	1.2	1.8	1.2	1.9	2.3	1.9	2.2	3.6	2.0	1.7	3.9	3.7	2.8	3.9
RESPONSE: 14 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	11.5	-0.5	1.7	-2.1	1.0	-0.1	0.1	-0.9	-0.1	-2.1	-3.4	-1.5	-2.8#	2.7	-1.6	-1.0	-1.1	1.5	1.0	0.9
STD ERR OF DP		2.2	1.6	1.5	2.3	0.8	0.8	2.0	0.4	2.7	3.9	1.5	1.0	3.5	3.3	1.2	2.6	4.2	2.0	1.8
STD ERR OF P	1.1	2.6	1.8	1.6	2.8	1.4	1.2	2.2	1.2	2.8	3.9	2.1	1.1	3.6	3.5	1.6	2.9	4.7	2.3	1.8
AGE: 13																				
DELTA-P	1.6	-0.9*	0.3	1.1	-0.7	0.4	-0.4	0.9	-0.4	2.7	0.1	-0.3	-1.2#	0.3	0.9	-0.7	-1.1*	0.8	1.4	-0.8
STD ERR OF DP		0.4	0.7	0.7	0.5	0.3	0.4	0.9	0.2	1.9	1.0	0.4	0.3	0.7	1.4	0.4	0.5	0.9	1.4	0.7
STD ERR OF P	0.3	0.3	0.8	0.9	0.4	0.6	0.3	0.9	0.4	2.1	1.0	0.6	0.2	0.6	1.5	0.4	0.4	1.0	1.6	0.6
AGE: 17																				
DELTA-P	1.2	0.3	0.1	-0.7*	0.4	-0.6*	0.5*	2.3	-0.5#	1.1	2.6	-0.5	-0.9#	-0.0	-0.2	-0.2	1.5	0.1	-0.3	-0.8
STD ERR OF DP		0.4	0.3	0.3	0.6	0.2	0.2	1.2	0.2	0.8	1.4	0.3	0.1	0.7	0.6	0.3	1.1	0.8	0.7	0.4
STD ERR OF P	0.2	0.4	0.3	0.3	0.8	0.2	0.4	1.3	0.2	0.9	1.5	0.4	0.1	0.7	0.6	0.3	1.2	0.8	0.7	0.4

EXERCISE: UB07

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective IV.

RESPONSE: 39 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	4.2	0.2	-1.6	-0.2	1.8	-0.3	0.2	3.9	-0.6	1.8*	1.8	-1.6*	-1.8*	4.7*	-3.7*	0.7	-0.2	0.8	-2.0	-1.8
STD ERR OF DP		1.5	0.9	1.4	1.2	0.5	0.4	2.4	0.3	0.9	1.9	0.8	0.8	2.1	0.8	1.0	2.1	2.7	1.3	1.2
STD ERR OF P	0.7	1.7	0.8	1.8	1.3	0.9	0.8	2.7	0.8	1.1	2.3	1.1	0.9	2.1	0.4	1.4	2.3	2.8	1.2	1.2

Report #: UB08

NAEP #: B32003-238

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

	13	17	Adult
Age:	07-23	02-27	05-26
Package-Exercise: UB08			
National P-value:	15.55	48.68	46.73

Timing: (in seconds) UB08 Exercise total:	24	23	*

*Time not limited by paced tape.

EXERCISE: UB08

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	6.6	-2.1	1.8	2.1	-2.0	0.4	-0.4	1.8	-0.4	2.6	-1.1	0.9	-0.8	-2.0	4.4	-1.5	-2.2	5.8	1.5	-2.9
STD ERR OF DP		1.3	2.5	2.4	1.5	0.5	0.4	2.0	0.4	2.3	1.5	0.9	0.7	2.0	5.3	1.5	1.6	4.1	3.7	1.6
STD ERR OF P	1.2	0.8	3.0	3.1	1.3	1.4	1.2	2.1	1.3	2.7	1.7	1.7	1.4	1.5	6.0	1.7	1.2	4.5	4.1	1.2
AGE: 17																				
DELTA-P	4.9	1.3	-2.1	2.0	-1.3	0.3	-0.3	5.9*	-1.1*	-1.2	2.8	-0.3	-2.1	4.5	-4.3*	-2.9	-3.0	17.6*	3.7	-4.6*
STD ERR OF DP		2.4	1.7	3.2	1.6	0.6	0.5	2.6	0.5	1.7	2.5	1.1	1.1	2.6	1.5	1.5	1.7	7.8	5.9	1.4
STD ERR OF P	1.4	2.5	1.2	4.4	1.1	1.6	1.4	3.0	1.6	1.3	3.4	2.3	0.7	2.7	0.5	0.9	0.9	8.3	7.1	0.3
AGE: Ad																				
DELTA-P	1.1	0.6	1.3	-0.7	-1.0*	0.2	-0.2	1.4	-0.3	0.9	-0.1	-0.2	-0.9*	-0.8	3.0	-0.3	1.2	-0.2	-0.1	-1.1*
STD ERR OF DP		0.7	0.8	0.4	0.3	0.3	0.3	1.3	0.2	0.7	0.8	0.5	0.4	0.4	1.6	0.3	0.7	0.6	0.9	0.3
STD ERR OF P	0.3	0.9	1.1	0.3	0.1	0.5	0.4	1.5	0.3	0.9	0.9	0.6	0.2	0.3	1.8	0.5	0.7	0.7	1.0	0.0
RESPONSE: 10* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	15.6	-4.6*	-1.8	3.7	1.8	2.7*	-2.6*	-13.2*	3.0*	-9.5*	-8.4*	-1.6	7.5*	-11.3*	4.2	-0.9	-2.0	-2.8	-2.2	13.5*
STD ERR OF DP		1.7	2.0	2.0	2.0	1.0	1.0	1.5	0.4	2.7	2.2	1.2	1.1	3.0	4.5	1.5	2.5	2.8	2.0	2.6
P-VALUE	15.6	11.0	13.8	19.3	17.4	18.2	12.9	2.4	18.6	6.1	7.2	14.0	23.0	4.3	19.8	14.7	13.5	12.7	13.3	29.0
STD ERR OF P	1.1	1.6	2.2	2.6	2.4	1.5	1.5	0.9	1.3	2.7	2.3	1.8	1.7	3.1	5.0	1.4	2.7	2.6	2.1	2.9
AGE: 17																				
DELTA-P	48.7	-16.5*	-0.2	3.7	9.1*	5.2*	-4.4*	-40.5*	9.2*	-22.7*	-16.5*	-1.5	15.0*	-24.9*	-5.1	3.9	0.8	-15.5*	5.3	17.7*
STD ERR OF DP		3.0	3.2	3.2	2.3	1.3	1.2	2.2	1.2	6.8	2.9	2.1	1.6	4.1	4.8	2.3	4.2	7.6	5.7	3.0
P-VALUE	48.7	32.2	48.5	52.4	57.8	53.8	44.2	8.2	57.9	26.0	32.2	47.2	63.7	23.8	43.6	52.5	49.4	33.2	54.0	66.4
STD ERR OF P	1.8	3.0	3.6	4.1	2.5	2.2	2.1	1.7	1.7	7.2	3.3	2.5	2.0	4.3	4.8	2.7	4.1	7.7	6.1	3.1
AGE: Ad																				
DELTA-P	46.7	-9.8*	2.8	0.4	5.0	8.1*	-7.5*	-36.9*	6.0*	-15.7*	-9.9*	4.6*	20.2*	-23.6*	-13.6*	-1.1	1.5	-1.3	0.6	27.2*
STD ERR OF DP		2.8	2.8	2.0	2.6	1.3	1.2	2.6	0.8	1.8	2.3	1.8	2.0	3.0	5.4	1.9	4.6	4.3	3.6	3.2
P-VALUE	46.7	37.0	49.5	47.1	51.7	54.8	39.2	9.8	52.7	31.0	36.8	51.4	66.9	23.2	33.2	45.6	48.3	45.5	47.3	73.9
STD ERR OF P	1.5	3.1	3.5	2.1	3.1	1.9	1.9	2.5	1.4	2.0	2.7	2.1	2.6	2.9	5.7	2.1	5.0	4.7	3.7	3.2
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	15.1	-0.8	3.2	-3.5*	1.5	-3.2*	3.1*	-4.4*	0.2	-1.9	-2.5	0.8	-0.4	4.4	-1.9	-0.8	0.8	-2.0	1.2	0.4
STD ERR OF DP		1.8	1.7	1.6	1.8	0.8	0.8	2.0	0.5	2.5	2.4	1.3	0.9	3.6	2.6	1.6	2.3	2.3	2.4	2.2
STD ERR OF P	1.0	2.0	2.0	1.9	2.0	1.2	1.4	2.3	1.1	2.8	2.6	1.5	1.4	3.9	2.8	1.8	2.3	2.5	2.7	2.5
AGE: 17																				
DELTA-P	12.0	4.5*	3.0	-1.5	-4.5*	-2.4*	2.1*	3.1	-1.4*	11.0*	3.9	-0.9	-3.1*	2.0	5.1	-0.1	4.0	-1.9	-1.4	-6.2*
STD ERR OF DP		1.6	1.6	1.3	1.2	0.9	0.8	2.1	0.5	4.0	2.2	1.0	0.7	2.8	3.8	1.1	2.4	2.6	2.2	1.9
STD ERR OF P	0.8	1.8	1.8	1.5	1.4	1.2	1.1	2.1	0.9	4.3	2.4	1.1	1.0	2.8	4.1	1.2	2.6	2.7	2.4	1.9
AGE: Ad																				
DELTA-P	24.4	4.0	-2.7	4.1*	-5.2*	-6.4*	6.0*	12.7*	-2.0*	9.3*	3.1	-2.8	-9.9*	7.5*	9.5	2.2	-2.5	-5.9	-1.3	-10.7*
STD ERR OF DP		2.6	1.9	1.9	1.9	1.3	1.2	3.7	0.6	1.9	2.5	1.5	1.6	3.5	5.5	1.5	2.7	3.1	3.4	2.5
STD ERR OF P	1.2	3.0	2.2	2.2	2.2	1.5	1.9	3.8	1.2	2.1	3.0	1.9	1.8	3.9	5.8	1.8	2.9	3.1	3.7	2.8

Report #: UB09

NAEP #: C20023-23

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: I. Recall and/or Recognition of Definitions,
Facts, and Symbols.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		13	17
Age:		13	17
Package-Exercise:		04-28	10-11
National P-value:			
	UB09	55.90	83.16

Timing: (in seconds)

UB09	Exercise total:	81	79

EXERCISE: U809

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	2.6	-1.6	5.6	-2.0	-2.0	0.7	-0.7	2.9	-1.1*	3.7	-1.7	-0.3	-1.1	13.5	-1.3	-2.0	-1.8	-1.8	1.8	-2.6*
STD ERR OF DP		1.3	3.8	1.3	1.3	0.4	0.5	1.8	0.5	2.5	1.7	0.4	1.1	9.9	1.3	1.3	1.4	1.4	3.6	1.3
STD ERR OF P	1.3	0.3	5.1	0.3	0.4	1.7	0.9	2.3	0.9	3.5	0.6	1.4	1.3	11.0	0.4	0.3	0.5	0.7	4.3	0.0
AGE: 17																				
DELTA-P	0.3	-0.2	-0.1	-0.0	0.3	0.1	-0.1	0.2	-0.0	-0.3*	-0.4#	0.2	-0.1	1.0	0.6	0.1	-0.3#	-0.3	-0.4#	-0.4#
STD ERR OF DP		0.2	0.2	0.2	0.3	0.1	0.1	0.4	0.1	0.1	0.1	0.2	0.2	0.7	0.8	0.2	0.1	0.2	0.1	0.1
STD ERR OF P	0.1	0.1	0.1	0.3	0.4	0.2	0.2	0.4	0.2	0.0	0.0	0.3	0.2	0.7	0.9	0.3	0.0	0.1	0.0	0.0
RESPONSE: 03* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	55.9	-6.1*	-5.2	4.8*	5.1	3.4#	-3.6#	-23.1#	6.1#	-16.0#	-4.0	-4.1	15.1#	-20.0#	1.2	4.2*	-5.7	-1.0	1.7	11.1
STD ERR OF DP		2.5	3.4	2.3	2.8	1.1	1.2	2.8	0.8	3.9	3.8	2.1	1.7	6.1	4.2	1.8	3.8	4.7	4.5	6.6
P-VALUE	55.9	49.8	50.7	60.7	61.0	59.3	52.3	32.8	62.0	39.9	51.9	51.8	71.0	35.9	57.1	60.1	50.2	54.9	57.6	67.0
STD ERR OF P	1.6	2.4	4.4	2.3	3.3	2.0	2.0	3.0	1.5	3.9	3.9	2.7	2.1	6.6	4.4	1.7	4.2	5.0	4.9	7.0
AGE: 17																				
DELTA-P	83.2	-7.7#	-0.7	3.6*	3.2	3.4#	-3.1#	-17.1#	4.3#	-21.2#	-8.4#	1.2	7.6#	-12.6#	-14.8#	2.3	1.7	-7.2	4.1	10.1#
STD ERR OF DP		2.1	1.6	1.7	2.0	0.8	0.8	2.7	0.6	3.3	2.2	1.9	1.0	3.4	5.2	1.4	1.8	4.8	2.5	1.7
P-VALUE	83.2	75.5	82.5	86.7	86.3	86.6	80.0	66.1	87.4	62.0	74.8	84.4	90.8	70.6	68.3	85.5	84.9	75.9	87.3	93.3
STD ERR OF P	1.1	2.3	1.8	1.9	2.5	1.2	1.4	2.9	1.1	3.6	2.5	2.2	1.1	3.5	5.2	1.9	2.1	4.8	2.6	1.5
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	4.2	-0.6	0.1	1.7*	-1.5*	-1.0#	1.0#	2.7	-0.4	-0.8	0.4	-0.2	-1.0*	-0.5	-0.4	-0.0	1.6	-0.1	-0.9	0.5
STD ERR OF DP		0.6	0.8	0.7	0.7	0.3	0.4	1.4	0.3	1.1	1.3	0.6	0.5	1.2	1.1	0.8	1.5	1.2	0.7	1.7
STD ERR OF P	0.4	0.6	1.0	0.8	0.7	0.5	0.6	1.4	0.5	1.1	1.4	0.7	0.7	1.3	1.1	0.9	1.5	1.3	0.8	1.9
AGE: 17																				
DELTA-P	2.1	1.2	-0.2	-0.2	-0.6	0.1	-0.1	2.4*	-0.5#	4.5#	2.1*	-0.5	-1.2#	1.3	0.4	-0.7	0.4	0.7	0.5	-1.0
STD ERR OF DP		0.7	0.4	0.4	0.5	0.3	0.3	1.2	0.2	1.3	1.0	0.5	0.3	1.1	0.9	0.4	0.5	1.0	0.8	0.7
STD ERR OF P	0.3	0.8	0.4	0.5	0.5	0.4	0.4	1.3	0.3	1.4	1.0	0.7	0.3	1.2	0.9	0.4	0.5	1.0	0.9	0.7

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Report #:        UB10

NAEP #:          C50022-23

Content Area:    B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective:      II. Perform Mathematical Manipulations.

Exercise Type:             Multiple choice
Scoring Type:              Machine
Administration Mode:       Group

Age:                                           13       17
Package-Exercise:                            08-10    04-02
National P-values:
                           UB10              24.82    50.17

Timing: (in seconds)
   UB10           Exercise total:              50       53
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EXERCISE: UB10

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.4	-0.4*	0.1	-0.2	0.5	-0.3	0.3	0.0	-0.0	-0.4*	-0.4*	0.1	-0.0	0.0	-0.4*	-0.2	0.0	0.1	-0.0	0.9
STD ERR OF DP		0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.1	0.2	0.2	0.3	0.1	0.4	0.2	0.1	0.3	0.5	0.3	0.8
STD ERR OF P	0.1	0.0	0.4	0.2	0.4	0.1	0.3	0.4	0.2	0.0	0.0	0.4	0.2	0.4	0.0	0.2	0.3	0.5	0.3	0.8
AGE: 17																				
DELTA-P	0.6	-0.0	-0.3	-0.3	0.6	-0.1	0.1	0.6	-0.1	-0.4	-0.1	-0.2	-0.2	1.1	-0.2	-0.3	-0.4	1.1	-0.6*	0.5
STD ERR OF DP		0.3	0.3	0.3	0.5	0.2	0.2	0.6	0.1	0.3	0.4	0.2	0.2	0.7	0.5	0.2	0.3	1.2	0.2	1.1
STD ERR OF P	0.2	0.3	0.3	0.3	0.6	0.2	0.3	0.7	0.2	0.2	0.4	0.2	0.3	0.7	0.4	0.2	0.2	1.3	0.0	1.2
RESPONSE: 04* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	24.4	-1.4	-6.3**	2.8	5.0	-3.1**	3.1**	-12.5**	2.8**	-6.6*	-7.4**	-1.7	7.4**	-12.2**	6.6	0.8	-1.4	1.4	-2.3	4.2
STD ERR OF DP		2.7	2.1	2.5	2.9	1.0	1.0	2.1	0.7	3.3	2.4	1.8	1.2	3.8	5.7	2.2	3.0	4.2	3.0	3.8
P-VALUE	24.4	23.1	18.1	27.2	29.5	21.3	27.6	11.9	27.2	17.9	17.0	22.7	31.8	12.2	31.1	25.3	23.0	25.8	22.2	28.6
STD ERR OF P	1.5	3.2	2.0	2.9	3.4	1.7	1.9	2.0	1.7	3.6	2.4	2.2	1.9	3.8	5.9	2.9	3.5	4.2	3.0	3.9
AGE: 17																				
DELTA-P	50.2	-9.9**	0.1	-0.3	7.6*	-1.0	1.0	-26.2**	4.8**	-22.0**	-18.3**	-6.5**	13.8**	-17.3**	-9.9	-3.7	7.1*	0.7	2.0	17.0**
STD ERR OF DP		2.9	2.5	3.2	3.3	1.4	1.4	2.6	0.8	3.2	3.5	1.5	1.3	5.2	5.5	2.4	3.4	5.7	3.9	5.7
P-VALUE	50.2	40.3	50.3	49.9	57.7	49.2	51.1	23.9	54.9	28.2	31.9	43.7	64.0	32.9	40.3	46.5	57.3	50.9	52.1	67.2
STD ERR OF P	1.8	2.9	2.4	4.2	4.0	2.1	2.4	2.7	1.8	3.3	3.6	2.6	2.0	5.3	5.6	2.3	3.2	6.1	4.5	6.5
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	13.8	-3.2*	3.1	0.3	-0.2	0.9	-0.9	4.9	-1.0	-0.1	-1.4	0.6	-2.5**	6.3**	-4.3*	-1.5	0.5	-2.5	4.3	-0.7
STD ERR OF DP		1.4	1.9	1.5	2.2	0.7	0.7	3.1	0.5	2.9	2.5	1.1	0.9	2.2	1.8	1.5	1.7	2.1	3.2	2.8
STD ERR OF P	1.0	1.5	2.2	1.7	2.6	1.2	1.3	3.3	1.1	2.9	2.4	1.6	1.4	2.2	1.7	1.9	1.5	2.2	3.7	3.1
AGE: 17																				
DELTA-P	5.9	1.6	1.4	-1.1	-1.2	0.3	-0.3	2.6*	-0.2	5.4**	4.6**	0.6	-2.9**	2.0	3.4	-0.3	-1.1	-1.6	1.0	-1.6
STD ERR OF DP		1.4	1.0	0.8	0.7	0.6	0.6	1.2	0.2	2.1	1.7	0.8	0.6	1.7	2.7	0.8	1.0	1.1	1.6	2.2
STD ERR OF P	0.5	1.7	1.1	0.9	0.7	0.8	0.8	1.4	0.6	2.3	1.9	1.0	0.5	1.7	3.0	1.0	1.0	1.1	1.6	2.3

Report #: UB11

NAEP #: G43009-234

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		05-30	01-02	06-27
National P-value:				
	UB11	58.00	71.63	33.63
Timing: (in seconds)				
UB11	Exercise total:	81	74	*

*Time not limited by paced tape.

EXERCISE: UB11

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective I.

RESPONSE: 00 TEXT: No Response.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	1.7	-1.7*	4.4*	-1.2	-1.6*	0.7	-0.7	-0.8	-0.2	-0.7	0.9	-0.5	-0.5	-1.7*	-1.7*	-1.7*	-1.7*	-1.3	8.5*	-1.6*
STD ERR OF DP		0.8	2.1	0.8	0.8	0.4	0.4	0.9	0.1	1.1	1.1	0.3	0.7	0.8	0.8	0.8	0.8	0.8	3.8	0.8
STD ERR OF P	0.8	0.0	2.9	0.4	0.1	1.0	0.6	0.6	0.7	1.0	1.7	0.7	0.7	0.0	0.0	0.0	0.0	0.4	4.5	0.1
AGE: 17																				
DELTA-P	0.4	-0.3	0.1	0.0	0.1	-0.0	0.0	0.4	-0.3	0.5	-0.4#	0.1	-0.2	0.2	0.8	-0.0	-0.2	-0.4#	0.4	-0.4#
STD ERR OF DP		0.2	0.3	0.3	0.3	0.2	0.2	0.8	0.1	0.9	0.2	0.3	0.2	0.4	1.1	0.2	0.3	0.2	0.6	0.2
STD ERR OF P	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0.9	0.1	1.0	0.0	0.3	0.2	0.5	1.2	0.2	0.3	0.0	0.6	0.0
AGE: Ad																				
DELTA-P	0.1	-0.1	0.1	-0.1	0.2	0.1	-0.1	1.1	-0.1	0.2	-0.1	0.0	-0.1	0.7	-0.1	-0.1	-0.1	-0.1	0.3	-0.1
STD ERR OF DP		0.1	0.2	0.1	0.2	0.1	0.1	0.8	0.1	0.2	0.1	0.1	0.1	0.8	0.1	0.1	0.1	0.1	0.4	0.1
STD ERR OF P	0.1	0.0	0.2	0.0	0.3	0.2	0.0	0.9	0.0	0.3	0.0	0.2	0.0	0.8	0.0	0.0	0.0	0.0	0.4	0.0

RESPONSE: 01* TEXT: All Acceptable Responses.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	58.1	-2.9	-6.4*	3.4	5.2	-2.9#	2.9#	-21.3#	4.3#	-12.1#	-12.4#	1.4	8.8#	-11.3*	0.6	2.6	4.4	-5.7	-6.4	10.3#
STD ERR OF DP		4.3	2.8	2.7	2.8	1.1	1.1	3.2	0.7	4.1	3.0	1.4	1.6	5.2	4.6	2.5	3.2	6.3	3.2	3.3
P-VALUE	58.1	55.2	51.7	61.4	63.3	55.2	61.0	36.8	62.4	45.9	45.7	59.5	66.9	46.7	58.7	60.7	62.4	52.4	51.7	68.4
STD ERR OF P	1.8	5.1	2.9	3.3	2.9	2.0	2.3	1.8	1.7	4.6	4.0	2.1	1.9	5.0	5.3	3.2	3.4	6.9	3.3	3.2
AGE: 17																				
DELTA-P	71.6	-1.2	0.2	-0.2	1.0	-2.3	2.2	-17.8#	3.4#	-16.5#	-10.7#	-1.9	9.6#	-8.0	-11.3#	1.6	1.1	-1.8	-4.1	10.8#
STD ERR OF DP		2.9	2.7	2.3	1.9	1.3	1.2	3.1	0.6	5.2	3.4	1.6	1.3	4.8	4.5	1.7	3.9	2.6	3.7	2.5
P-VALUE	71.6	70.4	71.8	71.4	72.6	69.4	73.8	53.9	75.0	55.2	61.0	69.8	81.3	63.6	60.4	73.2	72.7	69.9	67.5	82.4
STD ERR OF P	1.4	3.3	3.4	2.5	2.0	2.2	1.5	3.4	1.3	5.3	3.7	1.9	1.6	5.1	4.6	2.3	4.0	2.6	4.0	2.3
AGE: Ad																				
DELTA-P	33.4	-0.5	3.1	-3.4	1.0	2.9#	-2.7#	-8.6#	0.8	-10.0#	-4.7*	0.3	15.0#	-5.0	-3.7	-3.8#	4.0	0.2	-2.2	14.4#
STD ERR OF DP		2.3	2.5	1.8	1.7	1.1	1.1	3.4	0.6	1.9	2.3	2.1	1.8	4.0	3.4	1.4	2.9	3.9	3.9	3.7
P-VALUE	33.4	33.0	36.6	30.0	34.4	36.4	30.7	24.8	34.3	23.4	28.8	33.7	48.4	26.5	29.8	29.7	37.4	33.6	31.3	47.8
STD ERR OF P	1.2	2.6	3.1	2.1	1.8	1.9	1.3	3.6	1.3	2.0	2.6	2.3	2.2	4.1	3.4	1.6	3.2	4.2	4.3	4.0

RESPONSE: 09 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 13																				
DELTA-P	11.3	-0.1	1.0	-1.1	0.5	0.7	-0.7	4.5	-1.2*	1.6	0.5	-0.6	-2.9#	3.4	-1.1	-0.6	-3.3	2.5	2.8	-2.7
STD ERR OF DP		1.9	1.8	1.3	1.9	0.7	0.7	2.8	0.5	2.7	2.0	1.0	0.8	2.7	2.9	1.2	1.7	2.8	2.8	1.9
STD ERR OF P	1.0	2.2	2.2	1.4	2.2	1.2	1.2	3.0	1.0	3.0	2.1	1.2	1.3	2.7	3.2	1.5	1.6	2.9	3.2	1.9
AGE: 17																				
DELTA-P	5.5	-1.1	0.0	0.5	0.4	-0.0	0.0	3.7	-0.8*	-1.1	5.2#	-0.8	-1.5*	2.7	-0.7	-0.3	-1.1	3.4	0.4	-2.3
STD ERR OF DP		0.9	1.2	0.9	1.1	0.5	0.5	2.0	0.4	1.4	2.0	0.8	0.6	1.8	1.7	0.7	1.4	2.8	2.0	1.2
STD ERR OF P	0.6	0.8	1.5	1.0	1.3	0.8	0.7	2.2	0.6	1.3	2.1	1.0	0.8	2.0	1.7	0.7	1.5	3.1	2.3	1.0
AGE: Ad																				
DELTA-P	33.9	0.5	-3.0	2.3	0.1	-3.8#	3.6#	-1.7	0.3	8.3#	1.1	-1.4	-10.0#	-0.6	4.8	3.1	-5.4	-1.8	3.6	-8.4*
STD ERR OF DP		2.4	2.6	2.2	2.5	1.2	1.2	3.2	0.5	1.7	2.7	1.7	1.8	4.2	3.5	1.7	2.9	4.7	3.5	3.6
STD ERR OF P	1.4	2.5	3.2	2.5	2.9	2.2	1.5	3.3	1.5	2.0	3.3	2.2	1.9	4.5	3.6	2.1	3.0	5.2	3.7	4.0

Report #: UB12

NAEP #: N11028-1

Content Area: B. PROPERTIES OF NUMBERS AND OPERATIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple part short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 06-12
National P-value:

UB12A	58.73
UB12B	47.66

Timing: (in seconds)

UB12A	Part total:	31
UB12B	Part total:	32
UB12	Exercise total:	63

EXERCISE: UB12

This unreleased exercise dealt with PROPERTIES OF NUMBERS AND OPERATIONS at the level of Objective II.

Part A.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	4.3	2.1*	-0.5	-1.2	-0.3	1.0*	-1.0*	5.70	-1.40	2.4	2.4	0.0	-2.60	5.50	0.7	-0.9	0.7	-0.3	-0.9	-1.8
STD ERR OF DP		0.9	0.8	0.6	0.8	0.5	0.5	1.7	0.4	2.5	2.3	0.9	0.5	2.1	1.6	0.6	1.1	1.0	1.0	1.2
STD ERR OF P	0.5	1.1	0.9	0.6	0.9	0.8	0.6	1.9	0.4	2.5	2.4	1.0	0.6	2.2	1.7	0.7	1.2	1.0	1.0	1.3
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	58.7	-8.40	4.5	0.8	3.4	-3.70	3.80	-21.00	4.80	-14.70	-13.50	5.40	7.20	-20.00	-7.0	0.1	0.3	5.7	5.3	7.7
STD ERR OF DP		3.0	3.3	3.1	3.3	1.4	1.4	3.3	0.9	5.5	4.5	1.9	2.0	4.0	5.5	3.2	3.3	5.1	3.2	5.4
P-VALUE	58.7	50.4	63.2	59.5	62.1	55.1	62.5	37.7	63.5	44.0	45.2	64.1	66.0	38.7	51.7	58.9	59.1	64.5	64.0	66.4
STD ERR OF P	1.9	3.2	3.5	3.7	4.0	2.5	2.1	3.1	2.1	5.9	4.9	2.9	2.6	4.0	5.4	4.2	3.3	5.3	3.3	6.1
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	11.0	-1.4	-0.8	2.3	-0.5	0.8	-0.8	-2.0	0.3	-0.2	1.7	-3.0*	-1.5	3.0	-3.2	-0.0	2.2	-3.6	-1.1	2.6
STD ERR OF DP		1.7	2.0	2.0	1.8	0.8	0.8	1.6	0.4	2.1	3.2	1.3	1.5	2.6	2.5	1.7	2.0	2.4	2.7	4.5
STD ERR OF P	1.1	1.8	2.2	2.6	2.9	1.6	1.1	1.6	1.3	2.3	3.6	1.7	2.0	2.7	2.5	2.1	2.1	2.4	2.9	5.0

EXERCISE: UB12

Part B.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	5.8	2.0	-0.7	-1.7*	0.5	1.30	-1.30	5.80	-1.40	0.0	3.3	-0.5	-2.60	8.00	-0.3	-1.1	-0.1	1.2	0.1	-3.70
STD ERR OF DP		1.0	1.0	0.8	1.2	0.5	0.5	1.9	0.4	2.1	2.4	0.8	0.7	2.3	1.3	0.7	1.2	2.1	1.0	1.2
STD ERR OF P	0.6	1.2	1.0	0.9	1.4	0.9	0.7	2.0	0.6	2.1	2.5	1.1	0.7	2.5	1.4	0.9	1.2	2.3	1.0	1.2
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	47.7	-7.6*	1.1	-0.5	6.6*	-4.60	4.80	-19.20	4.30	-11.80	-13.80	4.1	10.40	-22.60	-5.0	-1.0	1.8	0.6	5.4	14.0*
STD ERR OF DP		3.3	3.6	3.3	3.0	1.3	1.4	3.0	0.9	4.5	4.5	2.1	2.4	3.9	5.4	3.1	5.0	4.5	2.9	5.9
P-VALUE	47.7	40.1	48.8	47.2	54.3	43.0	52.4	28.5	52.0	35.9	33.9	51.7	58.6	25.1	42.7	46.7	49.4	48.2	53.0	61.7
STD ERR OF P	1.9	3.7	3.9	4.0	3.4	2.5	2.2	3.1	2.1	4.7	5.2	3.1	2.9	3.8	5.3	3.9	5.5	4.8	2.8	6.5
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	14.0	-0.3	0.3	2.7	-2.8	1.0	-1.0	-5.00	0.9	-1.9	5.0	-4.10	-2.0	1.1	-5.1	1.3	3.6	-4.9*	0.0	0.9
STD ERR OF DP		2.2	2.1	2.2	2.2	0.9	1.0	1.9	0.5	2.5	4.6	1.5	1.4	3.4	2.8	2.1	2.5	2.4	3.2	4.6
STD ERR OF P	1.3	2.5	2.1	2.8	2.6	1.9	1.2	1.9	1.5	2.5	5.3	2.0	1.8	3.4	2.9	2.7	2.8	2.5	3.3	5.0

Report #: UC01

NAEP #: C10006-12

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		03-02	05-18
National P-value:			
	UC01	69.31	91.19

Timing: (in seconds)

UC01	Exercise total:	29	24

EXERCISE: UC01

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	4.1	2.3*	-1.1	0.4	-1.4	0.5	-0.6	8.5#	-1.8#	1.9	1.5	0.1	-2.2#	4.3*	3.7	-0.1	1.5	0.7	-2.3#	-4.0#
STD ERR OF DP		1.0	0.8	0.9	0.8	0.4	0.4	1.6	0.4	1.9	2.0	0.9	0.6	1.9	2.5	0.7	1.4	1.5	0.8	0.5
STD ERR OF P	0.5	1.2	0.9	1.2	0.8	0.8	0.5	1.9	0.4	2.1	2.2	1.1	0.5	2.1	2.6	0.8	1.5	1.6	0.8	0.1
AGE: 13																				
DELTA-P	0.5	-0.4#	0.1	0.1	0.2	0.2	-0.2	1.7*	-0.2*	0.5	-0.0	-0.2	-0.3	2.4	-0.5#	-0.2	-0.5#	0.5	-0.2	-0.4*
STD ERR OF DP		0.2	0.3	0.2	0.3	0.1	0.1	0.7	0.1	0.6	0.4	0.2	0.2	1.2	0.1	0.2	0.1	0.5	0.3	0.2
STD ERR OF P	0.1	0.1	0.4	0.3	0.3	0.2	0.2	0.8	0.1	0.6	0.5	0.2	0.2	1.3	0.0	0.2	0.0	0.6	0.3	0.1
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	69.3	-5.5	-4.9	3.2	6.9*	-2.0	2.2	-18.2#	4.2#	-9.4	-9.8*	1.6	9.2#	-17.2#	-4.4	-2.6	-0.4	3.9	5.9	12.1#
STD ERR OF DP		3.1	2.8	2.9	2.9	1.1	1.2	3.3	0.9	6.3	4.4	2.0	1.9	4.6	4.8	2.3	5.4	3.0	4.1	4.0
P-VALUE	69.3	63.9	64.4	72.5	76.2	67.3	71.5	51.1	73.5	60.0	59.5	70.9	78.5	52.1	65.0	66.7	68.9	73.2	75.2	81.4
STD ERR OF P	1.8	3.4	3.4	3.4	3.2	2.2	2.0	3.4	2.1	7.1	4.9	2.6	1.9	4.4	4.[illegible]	3.3	5.8	3.0	4.4	3.8
AGE: 13																				
DELTA-P	91.2	-0.2	-0.6	-0.4	1.3	-1.3	1.3	-10.1#	2.1#	-8.7#	-0.6	-0.5	3.8#	-13.3#	0.6	1.5	2.4	-2.3	1.7	1.6
STD ERR OF DP		1.5	1.3	1.2	1.1	0.7	0.7	2.9	0.5	2.9	1.9	1.0	0.8	3.0	2.5	0.9	1.5	2.2	1.7	1.7
P-VALUE	91.2	91.0	90.6	90.8	92.5	89.9	92.5	81.1	93.3	82.5	90.6	90.7	95.0	77.9	91.8	92.7	93.6	88.9	92.9	92.8
STD ERR OF P	0.7	1.8	1.5	1.5	1.1	1.1	1.0	3.2	0.7	3.1	1.8	1.2	0.9	3.1	2.7	1.1	1.5	2.3	1.8	1.7
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	13.7	-0.4	6.6#	-2.6	-3.8*	0.5	-0.5	0.1	-0.3	-0.9	2.4	-0.8	-4.8#	5.8	-1.3	1.6	-2.2	-5.3#	0.9	-2.4
STD ERR OF DP		1.4	1.5	1.7	1.6	1.1	1.2	1.8	0.5	2.6	4.1	1.4	1.4	3.2	2.1	1.5	2.2	1.7	3.1	3.1
STD ERR OF P	1.1	1.3	2.0	2.1	1.6	1.8	1.2	2.0	1.2	2.9	4.7	1.7	1.3	3.5	1.9	2.0	2.3	1.6	3.3	3.3
AGE: 13																				
DELTA-P	1.5	0.5	0.2	-0.6	0.1	0.5*	-0.5*	0.9	-0.4*	-0.6	0.5	-0.1	-0.9#	3.5*	-0.3	-0.7*	0.1	0.4	-0.2	-0.5
STD ERR OF DP		0.5	0.6	0.3	0.6	0.3	0.3	0.7	0.2	0.5	0.7	0.4	0.3	1.4	0.7	0.4	0.7	1.1	0.6	0.7
STD ERR OF P	0.3	0.5	0.7	0.3	0.7	0.4	0.3	0.8	0.2	0.5	0.8	0.4	0.3	1.5	0.7	0.3	0.7	1.2	0.7	0.7

```
Report #:        MC02

NAEP #:          C10009-123

Content Area:    C. ARITHMETIC COMPUTATION

Objective:      II. Perform Mathematical Manipulations.

Exercise Type:           Short answer
Scoring Type:            Semi-professional
Administration Mode:     Group

Age:                                    9         13         17
Package-Exercise:                     04-18      09-01      10-15
National P-value:
                         MC02         53.10      82.75      92.64

Timing: (in seconds)
   MC02          Exercise total:       32         32         32
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EXERCISE: UC02

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.7	-0.0	0.7	-0.5	0.0	1.0#	-1.0#	1.0	-0.3	4.0	-1.1	-0.2	-1.2#	0.5	1.3	0.1	0.4	0.2	-1.5#	-0.5
STD ERR OF DP		0.5	0.7	0.6	0.5	0.3	0.3	0.7	0.2	2.2	0.8	0.6	0.3	0.9	1.3	0.5	1.2	0.9	0.4	0.7
STD ERR OF P	0.3	0.5	0.9	0.7	0.6	0.6	0.3	0.8	0.4	2.4	0.7	0.6	0.3	0.9	1.4	0.5	1.4	0.9	0.2	0.7
AGE: 13																				
DELTA-P	3.2	1.0	-0.6	0.9	-1.4	-0.3	0.4	1.0	-0.0	-1.9*	2.5	0.1	-0.8	2.1	-3.2#	0.5	5.4	-2.8#	-1.5	-1.1
STD ERR OF DP		1.6	1.2	1.8	1.3	0.3	0.3	1.7	0.2	1.0	2.5	0.6	0.6	2.5	0.9	1.3	4.4	0.9	1.6	1.9
STD ERR OF P	0.9	1.9	1.2	2.3	1.4	0.7	1.1	1.7	1.0	0.4	3.0	1.0	1.1	2.5	0.0	1.5	5.0	0.3	1.6	2.1
AGE: 17																				
DELTA-P	0.1	0.0	-0.1	-0.0	0.1	0.0	0.0	0.3	-0.0	-0.1	-0.1	-0.0	-0.1	0.6	-0.1	-0.0	-0.1	-0.0	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.6	0.0	0.1	0.0	0.1	0.0	0.0
RESPONSE: 1** AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	53.1	-8.1#	-3.2	1.7	9.2#	-5.7#	5.4#	-19.7#	4.0#	-10.1#	-14.5#	2.3	4.4#	-17.3#	-11.2#	-0.5	3.2	-2.4	6.3*	10.4#
STD ERR OF DP		2.8	2.8	2.1	2.1	1.2	1.2	2.1	0.7	3.8	4.4	2.0	1.3	5.9	3.8	2.4	2.7	3.3	3.1	3.5
P-VALUE	53.1	45.0	49.9	54.8	62.3	47.5	58.5	33.4	57.1	43.0	38.6	55.4	57.5	35.8	42.0	52.7	56.3	50.7	59.4	63.5
STD ERR OF P	1.4	3.2	3.3	2.4	2.3	1.9	1.8	2.1	1.5	4.3	4.5	2.3	2.0	6.1	3.7	3.1	2.8	3.6	3.1	3.2
AGE: 13																				
DELTA-P	82.8	-5.1*	-0.0	-0.1	5.1#	-0.3	0.3	-13.9#	2.2#	-11.0*	-9.5*	2.3	4.7#	-8.1*	-0.7	-1.4	-3.1	-0.4	3.4	8.2#
STD ERR OF DP		2.1	1.9	2.5	1.8	1.0	1.1	2.5	0.4	4.8	3.8	1.2	1.1	3.9	3.9	1.6	5.2	3.2	2.5	2.6
P-VALUE	82.8	77.7	82.7	82.7	87.8	82.5	83.1	68.8	84.9	71.8	73.2	85.0	87.5	74.6	82.0	81.3	79.6	82.4	86.2	91.0
STD ERR OF P	1.2	2.2	1.9	3.1	1.9	1.5	1.6	2.6	1.3	4.9	4.4	1.5	1.5	3.9	4.2	1.7	5.9	3.2	2.5	2.7
AGE: 17																				
DELTA-P	92.6	-2.0	-0.9	1.8*	0.6	-0.7	0.6	-7.9#	1.5#	-4.1*	-2.7	-0.1	2.1#	-5.2#	-1.0	0.5	0.1	-5.0	3.2#	1.6
STD ERR OF DP		1.1	1.0	0.7	1.0	0.7	0.6	2.4	0.4	1.9	1.5	0.9	0.7	1.7	2.4	0.8	1.3	3.7	0.9	1.3
P-VALUE	92.6	90.6	91.7	94.4	93.2	91.9	93.3	84.7	94.1	88.6	89.9	92.5	94.8	87.5	91.6	93.2	92.7	87.7	95.8	94.3
STD ERR OF P	0.5	1.2	1.2	0.8	1.2	0.8	0.9	2.7	0.5	1.9	1.6	1.2	0.7	1.7	2.5	0.9	1.4	3.9	0.9	1.3
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	6.1	1.3	0.9	1.1	-3.6#	1.4#	-1.3#	2.7	-0.6	1.9	3.5	-1.4	-2.2#	5.4*	2.6	-0.8	-0.3	0.6	-1.2	-1.6
STD ERR OF DP		1.2	1.2	1.1	0.8	0.5	0.5	1.5	0.3	2.6	3.9	0.8	0.7	2.2	2.5	0.8	1.6	1.6	1.4	1.4
STD ERR OF P	0.7	1.4	1.4	1.4	0.7	0.9	0.8	1.6	0.7	2.8	4.1	0.9	0.6	2.4	2.6	1.0	1.8	1.7	1.5	1.3
AGE: 13																				
DELTA-P	0.1	0.0	0.0	-0.1*	0.1	0.1	-0.1	0.2	-0.0	-0.1*	1.1	-0.1	-0.1	0.2	0.0	0.1	-0.1*	-0.1*	-0.1*	0.2
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.7	0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.3
STD ERR OF P	0.1	0.1	0.1	0.0	0.2	0.1	0.0	0.3	0.1	0.0	0.7	0.1	0.1	0.3	0.2	0.1	0.0	0.0	0.0	0.3
AGE: 17																				
DELTA-P	0.2	-0.1*	0.4#	-0.1	-0.2#	0.0	0.0	0.2	-0.0	1.1#	-0.1	-0.0	-0.2#	0.4	-0.2#	0.2*	-0.1	-0.2#	-0.2#	-0.2#
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.2	0.1	0.0	0.1	0.0	0.3	0.0	0.1	0.1	0.2	0.0	0.5	0.0	0.1	0.1	0.0	0.0	0.0

Report #: UC03

NAEP #: C10016-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		04-01
National P-value:		
	UC03	75.91

Timing: (in seconds)
UC03 Exercise total: 36

EXERCISE: UC03

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.9	0.2	0.0	0.9	-1.2*	0.7	-0.7	2.2*	-0.6*	4.3*	-0.6	-0.2	-1.0*	3.5*	3.3*	-0.6	1.1	-0.3	-1.8*	-1.7*
STD ERR OF DP		0.6	0.6	0.9	0.5	0.4	0.4	1.0	0.2	1.9	0.9	0.6	0.3	1.7	1.5	0.5	1.7	0.8	0.4	0.4
STD ERR OF P	0.4	0.5	0.6	1.2	0.4	0.7	0.3	1.0	0.4	2.1	0.9	0.6	0.4	1.8	1.6	0.5	1.9	0.8	0.2	0.2
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	75.8	-6.6*	-3.0	3.2	5.6*	-0.8	0.7	-23.2*	5.3*	-4.6	-8.0	0.3	7.9*	-17.4*	-16.4*	0.1	5.9*	-4.0	5.4	11.7*
STD ERR OF DP		2.4	1.8	1.8	1.7	0.9	0.9	3.6	0.8	3.5	4.6	1.8	1.2	4.8	4.7	1.4	2.7	3.6	3.4	2.4
P-VALUE	75.8	69.2	72.8	79.0	81.4	75.1	76.5	52.6	81.1	71.2	67.8	76.1	83.7	58.4	59.4	75.9	81.7	71.8	81.2	87.6
STD ERR OF P	1.1	2.8	1.9	2.1	1.8	1.4	1.5	3.8	1.1	3.7	4.6	2.0	1.5	4.9	4.8	1.3	3.0	3.9	3.6	2.4
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	4.7	2.0	0.4	-1.3	-0.8	0.2	-0.2	5.5*	-1.3*	-0.5	-0.7	0.5	-2.3*	5.7	1.8	0.5	-1.8	1.2	-2.9*	-1.7
STD ERR OF DP		1.1	0.7	1.0	1.1	0.5	0.5	2.2	0.4	1.5	1.4	1.0	0.5	3.1	1.7	0.9	1.1	1.9	1.0	1.0
STD ERR OF P	0.6	1.3	0.5	1.2	1.2	0.8	0.6	2.4	0.6	1.5	1.3	1.2	0.6	3.3	1.8	1.1	1.1	1.9	0.9	0.9

Report #: UC04

NAEP #: C10019-123

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17
Package-Exercise:		03-26	01-01	01-01
National P-value:				
	UC04	30.45	75.18	87.25
Timing: (in seconds)				
UC04	Exercise total:	35	31	31

EXERCISE: UC04

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION SOUTHEAST	WEST	CENTRAL	NORTHEAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.7	0.8*	0.2	-0.1	-0.8*	0.6*	-0.6*	2.3*	-0.6#	-1.1	3.3	-0.3	-0.4	1.3	1.3	0.4	-1.0*	-0.2	-0.6	-1.0
STD ERR OF DP		0.4	0.5	0.4	0.4	0.3	0.3	0.9	0.2	0.7	2.3	0.5	0.4	1.0	1.6	0.5	0.5	0.7	0.5	0.5
STD ERR OF P	0.3	0.4	0.7	0.5	0.4	0.5	0.3	1.0	0.3	0.6	2.4	0.5	0.5	1.1	1.6	0.6	0.5	0.8	0.5	0.5
AGE: 13																				
DELTA-P	0.6	-0.2	0.4	-0.5#	0.4	0.1	-0.1	0.5	-0.3	0.2	1.2	-0.5#	-0.3*	2.4	1.1	-0.3	-0.6#	0.7	-0.5*	-0.6#
STD ERR OF DP		0.3	0.4	0.2	0.2	0.2	0.2	0.5	0.2	0.6	0.9	0.1	0.1	1.3	1.1	0.2	0.2	0.6	0.2	0.2
STD ERR OF P	0.2	0.3	0.6	0.1	0.2	0.2	0.3	0.6	0.1	0.6	0.9	0.1	0.2	1.3	1.2	0.2	0.0	0.6	0.1	0.0
AGE: 17																				
DELTA-P	0.5	-0.1	-0.2	0.0	0.2	-0.1	0.1	1.4	-0.3	0.5	0.4	0.1	-0.4*	0.7	1.1	-0.1	-0.0	-0.5#	0.4	-0.5#
STD ERR OF DP		0.3	0.3	0.3	0.3	0.2	0.2	0.8	0.1	0.9	0.6	0.3	0.2	0.7	1.2	0.2	0.4	0.2	0.6	0.2
STD ERR OF P	0.2	0.4	0.3	0.3	0.4	0.2	0.3	0.9	0.1	1.0	0.7	0.4	0.1	0.7	1.2	0.3	0.4	0.0	0.6	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	30.5	-9.6#	-4.6*	3.7	9.9#	-1.2	1.3	-19.4#	4.4#	-14.6#	-10.3*	1.3	9.3#	-15.4#	6.0	-1.5	-3.0	-3.1	-0.7	16.4#
STD ERR OF DP		3.4	2.3	3.3	2.6	1.2	1.3	2.2	0.7	3.7	4.4	1.9	1.9	3.2	4.3	2.4	4.3	5.3	5.1	4.5
P-VALUE	30.5	20.8	25.9	34.1	40.3	29.2	31.8	11.1	34.8	15.8	20.2	31.7	39.8	15.1	36.5	29.0	27.5	27.3	29.8	46.8
STD ERR OF P	1.8	3.9	2.1	4.3	2.7	2.2	2.1	2.1	1.9	3.7	4.4	2.8	2.4	3.0	4.2	3.1	4.6	5.8	5.5	4.7
AGE: 13																				
DELTA-P	75.2	-4.7*	-5.4	4.5*	3.3	-1.4	1.5	-17.4#	4.0#	-18.5#	1.5	1.1	7.1#	-12.6#	-6.9	1.3	-2.0	1.6	0.9	7.0
STD ERR OF DP		2.3	2.9	2.2	2.4	0.9	0.9	3.2	1.1	5.6	3.1	1.9	1.5	4.9	7.0	2.1	2.5	2.9	3.5	3.8
P-VALUE	75.2	70.5	69.8	79.7	78.5	73.8	76.7	57.8	80.0	56.6	76.6	76.3	82.3	62.6	68.3	76.4	73.2	76.8	76.1	82.2
STD ERR OF P	1.4	2.3	3.5	2.6	2.7	1.8	1.7	3.4	1.3	6.1	3.3	2.3	1.8	4.9	7.7	2.5	2.4	2.9	3.7	3.9
AGE: 17																				
DELTA-P	87.3	0.3	-1.1	0.2	0.7	-1.1	1.0	-11.3#	2.3#	-10.2#	-4.3	0.7	3.5#	-11.1#	-8.1*	1.0	-0.8	-0.7	2.7	6.3#
STD ERR OF DP		1.4	1.4	1.5	1.4	0.9	0.9	2.9	0.5	3.0	2.3	1.2	0.9	3.1	4.0	1.0	2.4	2.9	2.2	1.7
P-VALUE	87.3	87.6	86.2	87.4	87.9	86.2	88.3	76.0	89.5	77.1	83.0	87.9	90.8	76.2	79.1	[illegible]	86.5	86.6	90.0	93.6
STD ERR OF P	0.8	1.5	1.7	1.7	1.6	1.2	1.3	3.1	0.7	3.3	2.4	1.4	1.1	3.3	4.1	1.0	2.6	3.1	2.4	1.7
RESPONSE: 19 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	10.3	-2.4	4.0*	-0.4	-1.7	-0.6	0.6	-0.2	0.1	2.0	-2.0	-1.7	-3.5#	3.0	-1.6	-0.7	-1.0	2.6	2.8	-2.9
STD ERR OF DP		1.4	1.7	1.6	2.1	0.9	1.0	1.4	0.3	2.6	3.9	1.3	1.1	3.1	2.0	1.4	1.9	3.8	2.6	2.2
STD ERR OF P	1.1	1.3	2.1	1.9	2.5	1.6	1.2	1.6	1.2	3.0	4.3	1.5	1.1	3.2	1.9	1.9	1.9	4.2	2.9	2.0
AGE: 13																				
DELTA-P	0.7	0.3	0.1	0.0	-0.4	0.0	-0.0	0.2	-0.2	1.4	-0.7#	0.1	-0.6#	-0.2	0.3	0.2	-0.7#	0.5	0.1	-0.7#
STD ERR OF DP		0.3	0.3	0.3	0.2	0.1	0.2	0.4	0.1	1.5	0.2	0.3	0.2	0.5	0.5	0.3	0.2	0.5	0.6	0.2
STD ERR OF P	0.2	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.2	1.6	0.0	0.3	0.1	0.5	0.5	0.3	0.0	0.6	0.7	0.0
AGE: 17																				
DELTA-P	0.4	0.3	0.0	0.1	-0.4*	-0.1	0.1	0.5	-0.1	-0.3	0.9*	-0.2	-0.3	0.8	2.1	-0.1	-0.3*	-0.4*	-0.4*	-0.4*
STD ERR OF DP		0.5	0.3	0.2	0.2	0.2	0.2	0.7	0.1	0.2	0.4	0.1	0.2	1.1	1.8	0.2	0.2	0.2	0.2	0.2
STD ERR OF P	0.2	0.6	0.4	0.1	0.0	0.2	0.2	0.8	0.1	0.1	0.4	0.2	0.1	1.2	1.9	0.1	0.0	0.0	0.0	0.0

```
Report #:       0C05

NAEP #:         C10022-12

Content Area:   C. ARITHMETIC COMPUTATION

Objective:     IV. Solving    Mathematical     Problems--Social,
                   Technical, and Academic.

Exercise Type:          Short answer
Scoring Type:           Semi-professional
Administration Mode:    Group

Age:                                  __9__     _13__
Package-Exercise:                     07-22     08-19
National P-value:
                        0C05          33.61     79.91

Timing: (in seconds)
   0C05         Exercise total:        41        41
```

EXERCISE: UC05

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.9	0.3	0.1	-0.6	0.4	0.3	-0.3	0.4	-0.5*	0.8	2.6	-0.9*	-1.3*	0.5	0.8	-0.1	-0.5	2.1*	-0.8	-1.1
STD ERR OF DP		0.4	0.6	0.4	0.6	0.3	0.3	0.8	0.2	1.2	1.5	0.3	0.3	0.8	1.1	0.4	0.7	1.0	0.6	0.6
STD ERR OF P	0.3	0.5	0.7	0.4	0.7	0.4	0.3	0.8	0.1	1.2	1.6	0.3	0.3	0.9	1.2	0.5	0.7	1.1	0.6	0.6
AGE: 13																				
DELTA-P	0.4	-0.2	0.5	-0.1	-0.2	0.0	-0.0	1.6*	-0.4*	-0.4*	-0.1	0.2	-0.2	2.2*	-0.4*	-0.3*	0.3	0.1	-0.2	-0.4*
STD ERR OF DP		0.1	0.3	0.2	0.1	0.2	0.2	0.7	0.1	0.1	0.3	0.3	0.2	0.8	0.1	0.1	0.4	0.5	0.2	0.1
STD ERR OF P	0.1	0.1	0.4	0.2	0.1	0.2	0.2	0.8	0.0	0.0	0.3	0.3	0.2	0.9	0.0	0.1	0.4	0.5	0.2	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	33.6	-11.0*	-3.9	5.1	7.8*	-1.6	1.6	-19.6*	4.3*	-15.4*	-5.6	1.5	13.0*	-16.7*	-2.6	-1.3	-6.6*	-1.0	6.5	14.1*
STD ERR OF DP		2.2	2.9	2.8	3.0	1.0	1.0	2.2	0.6	4.0	4.2	2.6	1.8	3.7	4.4	2.0	3.2	4.0	4.2	5.6
P-VALUE	33.6	22.6	29.7	38.7	41.4	32.0	35.2	14.0	38.0	18.3	28.0	35.1	46.6	16.9	31.0	32.3	27.1	32.6	40.1	47.7
STD ERR OF P	1.7	2.1	3.1	3.4	3.7	1.6	2.3	1.7	1.9	3.8	4.4	3.1	2.8	3.4	4.5	2.1	3.2	4.4	4.5	6.4
AGE: 13																				
DELTA-P	79.9	-0.3	-6.2*	2.4	4.2*	-2.8*	2.9*	-22.2*	4.4*	-11.6*	-5.0	0.5	6.9*	-24.1*	0.7	0.1	2.6	1.8	2.4	6.9*
STD ERR OF DP		1.9	2.4	2.2	1.7	0.9	0.9	4.2	0.9	3.2	3.7	1.5	1.1	4.6	4.5	1.8	2.6	2.6	3.2	2.9
P-VALUE	79.9	79.6	73.7	82.3	84.2	77.1	82.8	57.7	84.3	68.3	74.9	80.4	86.8	55.8	80.6	80.0	82.5	81.7	82.4	86.8
STD ERR OF P	1.2	2.0	3.0	2.6	1.7	1.5	1.5	4.8	1.1	3.4	3.9	2.1	1.4	5.0	4.8	1.8	2.7	2.5	3.7	2.7
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	13.9	1.5	4.9*	-3.4*	-1.7	-1.0	1.0	5.8*	-1.1	7.8*	-5.4	-3.4*	-5.3*	6.2	-1.1	-0.4	4.7	-0.8	-2.3	-2.8
STD ERR OF DP		1.8	2.4	1.5	1.7	0.8	0.8	2.3	0.6	3.3	3.1	1.1	1.1	3.3	3.1	1.3	2.9	2.6	2.0	2.8
STD ERR OF P	1.1	2.0	2.9	1.6	1.9	1.0	1.6	2.2	1.3	3.5	3.3	1.6	1.1	3.1	3.3	1.8	3.2	2.7	2.1	3.3
AGE: 13																				
DELTA-P	1.0	-0.2	0.6	-0.3	-0.1	0.3	-0.3	1.4	-0.5*	0.3	-0.6	0.1	-0.3	0.5	0.1	-0.5	0.8	1.4	-0.4	-1.0*
STD ERR OF DP		0.3	0.4	0.4	0.4	0.2	0.2	0.8	0.2	0.7	0.3	0.3	0.2	0.7	0.6	0.3	0.7	1.0	0.4	0.2
STD ERR OF P	0.2	0.3	0.5	0.5	0.4	0.3	0.2	1.0	0.2	0.7	0.3	0.5	0.3	0.7	0.6	0.2	0.8	1.1	0.4	0.0

NAEP #: C10021-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform mathematical manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		07-21
National P-value:		
	0C06	35.37

Timing: (in seconds)
0C06 Exercise total: 22

EXERCISE: UC06

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	SIZE-AND-TYPE OF COMMUNITY EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY HIGH METRO
DELTA-P	8.1	5.7*	-1.4	-0.7	-3.3*	-0.1	0.1	10.5*	-2.3*	6.0	0.2	-2.5*	-2.9*	8.5*	6.6	-1.8	-0.5	0.3	-3.3*	-0.5
STD ERR OF DP		1.4	1.5	1.4	1.3	0.6	0.6	1.9	0.5	4.4	2.2	0.9	0.9	2.8	3.8	1.0	2.0	1.9	1.5	2.3
STD ERR OF P	0.8	1.5	1.7	1.6	1.6	1.0	1.0	2.0	0.9	4.5	2.3	1.2	1.0	2.9	3.9	1.2	2.0	2.0	1.6	2.7

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	SIZE-AND-TYPE OF COMMUNITY EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY HIGH METRO
DELTA-P	35.4	-8.5*	-3.8	3.7	6.9	-3.2*	3.2*	-20.5*	4.2*	-8.0	-6.0	-0.5	11.2*	-19.0*	-1.9	1.1	-3.7	1.9	5.0	4.9
STD ERR OF DP		3.5	3.7	3.8	3.7	1.0	1.0	2.8	0.6	4.8	4.0	2.2	1.9	4.2	5.1	3.0	5.2	5.4	4.9	6.6
P-VALUE	35.4	26.9	31.6	39.1	42.3	32.2	38.6	14.9	39.6	27.4	29.3	34.9	46.5	16.4	33.5	36.5	31.6	37.3	40.3	40.3
STD ERR OF P	2.2	3.9	4.0	4.8	4.3	2.6	2.3	2.5	2.5	5.2	4.5	3.3	3.2	4.0	5.3	3.7	5.4	5.5	5.5	7.4

RESPONSE: 03 AGE: 9 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	SIZE-AND-TYPE OF COMMUNITY EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY HIGH METRO
DELTA-P	22.1	4.0	7.9*	-0.8	-9.9*	-0.9	0.9	4.1	-0.8	1.5	0.6	-1.4	-4.2*	-3.2	-5.5	1.9	8.0	-0.8	1.1	-5.7
STD ERR OF DP		3.2	2.6	2.9	2.1	0.8	0.8	3.7	0.7	3.8	4.1	1.5	1.5	4.8	3.1	2.3	5.3	4.5	3.5	3.8
STD ERR OF P	1.6	3.8	2.8	3.6	1.8	1.7	1.9	4.2	1.8	3.2	4.9	2.0	2.0	5.0	3.0	2.6	5.8	5.0	4.0	4.3

Report #: UC07

NAEP #: C10028-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		02-28
National P-value:		
	UC07	68.95

Timing: (in seconds)
UC07 Exercise total: 41

EXERCISE: UC07

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.7	0.7	1.5	-0.7	-1.2*	0.5*	-0.4*	0.5	-0.3	-0.6	-0.9	-0.4	-0.7*	4.2	0.4	-0.7	0.6	-0.7	-0.8	-1.5*
STD ERR OF DP		0.7	1.5	0.6	0.5	0.2	0.2	0.8	0.2	0.8	0.7	0.5	0.3	3.7	0.8	0.5	1.0	1.1	0.6	0.5
STD ERR OF P	0.5	0.8	1.9	0.4	0.2	0.6	0.5	0.8	0.4	0.7	0.6	0.5	0.4	4.1	0.8	0.4	1.0	1.0	0.5	0.2
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	69.0	-6.9*	-0.3	-1.9	8.3*	-0.3	0.3	-16.3*	3.5*	-16.0*	-6.8	2.6	6.2*	-17.1*	-10.0*	0.9	3.2	1.8	2.4	13.6*
STD ERR OF DP		2.3	2.5	2.1	2.1	1.0	1.0	3.2	0.7	4.4	3.9	2.2	1.6	4.0	3.9	1.9	4.5	3.2	3.0	3.1
P-VALUE	69.0	62.0	68.6	67.1	77.3	68.7	69.2	52.7	72.5	52.9	62.2	71.6	75.2	51.9	58.9	69.9	72.1	70.7	71.4	82.5
STD ERR OF P	1.4	2.7	2.8	2.3	2.5	1.8	1.5	3.5	1.5	4.7	4.1	2.5	2.0	4.3	4.2	1.9	4.8	3.3	3.6	3.4
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	5.1	-0.3	0.9	-0.2	-0.3	0.5	-0.4	4.7*	-1.1*	4.7	1.1	-2.4*	-2.7*	5.5	1.7	-0.8	-1.2	-2.4	0.7	-2.4*
STD ERR OF DP		1.3	1.4	1.2	1.0	0.5	0.5	2.1	0.5	4.5	2.5	0.8	0.8	2.9	2.5	0.9	1.1	1.4	2.1	1.1
STD ERR OF P	0.7	1.6	1.6	1.3	1.1	1.0	0.8	2.5	0.7	4.9	2.6	0.7	0.7	3.1	2.8	0.8	1.1	1.2	2.5	1.0

Report #: UC08

NAPP #: C10031-1234

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		03-16	05-12	04-06	07-01
National P-value:					
	UC08	29.15	83.82	89.81	88.14
Timing: (in seconds)					
UC08	Exercise total:	31	30	30	*

*Time not limited by paced tape.

EXERCISE: UC08

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.5	0.2	-0.6	1.1	-0.9	0.5	-0.6	2.6*	-0.5*	2.7	2.3	-0.5	-1.2*	2.6*	1.4	-0.6	-0.4	1.4	0.5	-1.9*
STD ERR OF DP		0.8	0.5	0.6	0.5	0.3	0.3	0.9	0.2	2.1	2.2	0.6	0.4	1.1	2.3	0.4	0.9	0.9	1.1	0.7
STD ERR OF P	0.3	1.0	0.5	0.7	0.5	0.5	0.4	1.1	0.4	2.1	2.2	0.7	0.4	1.0	2.5	0.5	0.9	0.9	1.2	0.7
AGE: 13																				
DELTA-P	0.4	0.0	0.0	-0.2	0.2	0.3*	-0.3*	0.5	-0.3*	0.1	0.2	-0.2	-0.2	1.4*	0.2	-0.2	0.0	-0.4*	-0.4*	0.3
STD ERR OF DP		0.2	0.3	0.2	0.2	0.1	0.1	0.4	0.1	0.5	0.5	0.1	0.1	0.6	0.3	0.1	0.3	0.1	0.1	0.5
STD ERR OF P	0.1	0.2	0.4	0.2	0.2	0.2	0.1	0.4	0.1	0.5	0.5	0.1	0.2	0.7	0.3	0.1	0.3	0.0	0.0	0.6
AGE: 17																				
DELTA-P	0.5	-0.2	0.1	-0.1	0.2	0.2	-0.2	0.8	-0.1	1.3*	-0.5*	-0.2	-0.3	1.3	0.9*	-0.3	-0.5*	-0.5*	-0.5*	0.6
STD ERR OF DP		0.3	0.2	0.3	0.4	0.1	0.1	0.7	0.1	0.4	0.2	0.3	0.2	1.0	0.4	0.2	0.2	0.2	0.2	1.1
STD ERR OF P	0.2	0.3	0.0	0.3	0.5	0.2	0.2	0.7	0.2	0.3	0.0	0.3	0.1	1.1	0.3	0.2	0.0	0.0	0.0	1.2
AGE: Ad																				
DELTA-P	0.1	0.3	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	0.0	0.2	-0.1	-0.1	-0.1	-0.1	0.3	0.0	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	29.2	-13.0*	-5.4*	4.6	12.9*	-2.7*	2.9*	-17.2*	3.7*	-14.5*	-5.2	0.7	9.4*	-13.4*	1.5	-0.6	-7.8*	-0.7	-2.6	19.4*
STD ERR OF DP		2.3	2.2	3.5	3.3	1.0	1.0	2.4	0.7	3.3	5.5	1.9	1.9	3.5	7.0	2.7	3.2	5.7	4.3	5.0
P-VALUE	29.2	16.1	23.8	33.7	42.1	26.4	32.1	11.9	32.9	14.7	23.9	29.8	38.5	15.7	30.6	28.6	21.4	28.5	26.6	48.5
STD ERR OF P	1.[illegible]	1.8	1.7	4.6	4.0	2.2	2.1	2.2	2.1	3.1	5.9	2.5	2.7	3.3	7.3	3.4	2.9	6.2	4.7	5.3
AGE: 13																				
DELTA-P	83.8	-2.3	-1.6	1.5	1.9	-3.4*	3.4*	-18.9*	3.4*	-4.1	-0.4	1.1	5.1*	-15.1*	-1.4	2.6*	0.3	-0.7	0.7	3.9
STD ERR OF DP		2.6	2.1	1.6	1.9	0.9	0.9	2.4	0.6	3.7	2.9	1.0	1.2	4.8	2.9	1.3	2.9	2.9	2.9	2.4
P-VALUE	83.8	81.5	82.2	85.3	85.7	80.4	87.3	64.9	87.2	79.7	83.[illegible]	84.9	88.9	68.7	82.4	86.5	84.2	83.1	84.6	87.7
STD ERR OF P	1.2	3.0	2.5	1.8	2.1	1.6	1.3	2.8	0.9	3.8	5.1	1.5	1.0	5.0	3.1	1.2	3.2	3.1	3.3	2.5
AGE: 17																				
DELTA-P	89.8	-2.6	-1.0	-0.7	3.5*	-0.5	0.5	-15.7*	2.3*	-10.8*	-6.4*	1.6	3.3*	-9.2*	-3.3	0.5	0.8	4.2*	3.3*	-0.4
STD ERR OF DP		1.8	1.7	1.4	1.3	0.8	0.8	2.1	0.5	3.5	2.2	1.0	0.8	3.2	4.0	1.2	2.0	2.0	1.6	3.0
P-VALUE	89.8	87.2	88.8	89.2	93.3	89.3	90.3	74.1	92.1	79.0	83.4	91.4	93.1	80.6	86.6	90.3	90.6	94.0	93.1	89.4
STD ERR OF P	0.9	2.0	2.0	1.7	1.4	1.2	1.2	2.5	0.8	3.8	2.3	1.5	1.0	3.5	4.2	1.3	2.2	2.0	1.6	3.2
AGE: Ad																				
DELTA-P	88.1	-1.4	0.2	2.7	-2.0	-0.8	0.7	-14.6*	2.8*	-5.7*	1.5	2.6	2.3	-7.4*	-3.7	-0.0	-2.3	-0.9	2.6	7.3*
STD ERR OF DP		1.6	1.6	1.4	2.3	0.9	0.8	3.6	0.6	1.5	2.0	1.4	1.4	3.5	2.7	1.1	1.9	4.3	2.4	1.9
P-VALUE	88.1	86.7	88.4	90.9	86.1	87.4	88.9	73.6	90.9	82.4	89.6	90.7	90.5	80.8	84.4	88.1	85.9	87.3	90.8	95.4
STD ERR OF P	1.0	1.6	1.8	1.5	2.9	1.4	1.3	4.1	0.9	2.2	2.0	1.5	1.7	3.7	2.6	1.7	2.4	4.7	2.2	2.0
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	23.6	-0.7	7.7*	-1.8	-5.8*	2.6*	-2.8*	-6.1*	1.0*	4.7	-7.4	-1.7	-4.5*	-2.1	-2.7	-0.2	4.8	-3.8	4.7	-2.6
STD ERR OF DP		2.4	2.3	2.2	2.3	1.0	1.1	2.4	0.5	8.5	4.0	1.6	1.5	4.3	4.1	1.9	4.9	3.6	3.0	3.5
STD ERR OF P	1.4	2.6	2.8	2.6	2.5	2.1	1.2	2.8	1.6	9.1	4.6	2.0	1.6	4.5	4.3	2.6	5.2	3.8	3.2	3.6
AGE: 13																				
DELTA-P	1.2	0.7	0.2	-0.6	0.0	0.3	-0.3	2.5*	-0.4*	1.6	-1.2*	-0.3	-1.0*	1.8	0.1	-0.5	0.5	1.5	-0.7	-1.2*
STD ERR OF DP		0.5	0.5	0.4	0.6	0.3	0.3	0.9	0.1	1.3	0.3	0.3	0.3	1.4	0.6	0.4	0.7	1.2	0.5	0.3
STD ERR OF P	0.3	0.6	0.6	0.4	0.8	0.4	0.4	1.1	0.2	1.4	0.0	0.3	0.1	1.5	0.6	0.4	0.7	1.4	0.5	0.0
AGE: 17																				
DELTA-P	0.4	0.2	0.2	-0.4*	0.1	0.1	-0.1	1.4	-0.2	1.0	-0.1	-0.2	-0.3*	-0.4*	-0.1	0.1	-0.1	1.2	-0.2	-0.4*
STD ERR OF DP		0.3	0.2	0.2	0.4	0.2	0.2	1.0	0.1	1.6	0.3	0.2	0.2	0.2	0.3	0.2	0.3	1.3	0.3	0.2
STD ERR OF P	0.1	0.3	0.2	0.1	0.5	0.3	0.1	1.1	0.1	1.7	0.3	0.2	0.1	0.0	0.2	0.1	0.3	1.5	0.3	0.0

EXERCISE: NC08

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

RESPONSE: 39 AGE: A4 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	1.0	1.2	-0.1	-0.8*	0.1	-0.1	0.1	3.1*	-0.4*	1.3*	-0.1	-0.5	-0.8*	2.1	0.9	-0.2	-0.1	-0.4	-0.3	-0.6
STD ERR OF DP		0.6	0.4	0.3	0.4	0.2	0.2	1.3	0.2	0.5	0.6	0.3	0.2	1.6	1.0	0.3	0.5	0.6	0.7	0.4
STD ERR OF P	0.2	0.7	0.5	0.2	0.5	0.3	0.3	1.4	0.2	0.7	0.6	0.3	0.2	1.8	1.1	0.4	0.5	0.6	0.7	0.4

Report #: UC09

NAEP #: C10032-1234

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		05-13	02-13	05-21	05-16
National P-value:	UC09	3.79	68.09	81.01	74.99

Timing: (in seconds)					
UC09	Exercise total:	47	47	45	*

*Time not limited by paced tape.

EXERCISE: UC09

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.5	0.1	0.5	0.1	-0.6*	0.5	-0.5	0.7	-0.5*	-0.1	2.1	0.2	-0.7*	1.0	3.2	-0.4	-0.6	-0.6	0.1	-0.7
STD ERR OF DP		0.5	0.6	0.5	0.3	0.3	0.3	0.5	0.2	0.9	1.7	0.5	0.3	0.9	1.9	0.3	0.5	0.5	1.0	0.5
STD ERR OF P	0.3	0.6	0.7	0.6	0.2	0.5	0.3	0.6	0.3	0.9	1.8	0.6	0.4	0.9	2.1	0.4	0.4	0.4	1.0	0.5
AGE: 13																				
DELTA-P	0.8	-0.6	1.9	-0.8	-0.5	0.1	-0.1	-0.1	-0.1	-0.8	-0.3	-0.1	0.1	0.2	-0.8	-0.6	0.1	-0.8	2.8	-0.8
STD ERR OF DP		0.6	1.6	0.6	0.6	0.1	0.1	0.7	0.1	0.6	0.7	0.3	0.4	0.8	0.6	0.6	0.8	0.6	3.0	0.6
STD ERR OF P	0.5	0.2	2.2	0.0	0.2	0.6	0.6	0.4	0.6	0.0	0.5	0.4	0.9	0.7	0.0	0.2	0.6	0.0	3.5	0.0
AGE: 17																				
DELTA-P	0.2	0.1	-0.2*	0.1	0.1	0.1	-0.1	0.6	-0.1	-0.1	0.4	-0.1	-0.1	0.9	-0.1	-0.2*	0.1	0.3	-0.2*	-0.2*
STD ERR OF DP		0.2	0.1	0.2	0.2	0.1	0.1	0.4	0.1	0.1	0.6	0.1	0.1	0.7	0.1	0.1	0.2	0.5	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.2	0.3	0.2	0.1	0.4	0.1	0.1	0.6	0.1	0.1	0.8	0.1	0.0	0.2	0.5	0.0	0.0
AGE: Ad																				
DELTA-P	0.2	0.6	-0.2	-0.2	0.0	-0.2	0.2	2.1	-0.2	0.7	-0.2	-0.2	-0.2	-0.2	-0.2	0.2	-0.2	0.5	-0.2	-0.2
STD ERR OF DP		0.7	0.2	0.2	0.3	0.2	0.2	1.5	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.7	0.2	0.2
STD ERR OF P	0.2	0.8	0.0	0.0	0.2	0.0	0.4	1.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.8	0.0	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	3.8	-2.5*	1.0	0.1	1.5	0.3	-0.3	-3.1*	0.7*	-3.4*	-2.0	1.0	2.9*	-3.3*	1.1	-1.7*	-0.2	-1.5	8.1*	1.0
STD ERR OF DP		0.7	1.1	1.3	1.1	0.5	0.5	0.8	0.2	0.7	1.4	0.9	0.8	0.6	3.0	0.8	1.3	1.2	3.0	1.4
P-VALUE	3.8	1.3	4.8	3.9	5.3	4.1	3.5	0.7	4.5	0.4	1.8	4.8	6.7	0.5	4.9	2.1	3.6	2.3	11.9	4.8
STD ERR OF P	0.6	0.4	1.3	1.7	1.2	0.9	0.7	0.5	0.8	0.4	1.5	1.2	1.3	0.5	3.2	0.6	1.4	1.2	3.4	1.6
AGE: 13																				
DELTA-P	68.9	-3.2	-2.2	3.8*	0.8	-3.4*	3.3*	-22.6*	4.6*	-7.2	-3.6	1.5	5.9*	-20.7*	1.9	1.3	-0.9	-3.1	1.0	9.4*
STD ERR OF DP		3.0	2.3	1.6	1.8	1.0	1.0	2.9	0.7	5.0	3.6	1.5	1.1	5.2	4.4	1.6	4.1	3.2	3.2	3.2
P-VALUE	68.9	65.7	66.7	72.7	69.6	65.5	72.2	46.3	73.5	61.7	65.3	70.4	74.8	48.2	70.8	70.2	68.0	65.8	69.9	78.3
STD ERR OF P	1.2	3.7	2.7	1.6	1.9	1.5	1.7	3.1	1.2	5.5	3.9	1.8	1.6	5.4	4.8	1.9	4.4	3.2	3.4	3.3
AGE: 17																				
DELTA-P	81.0	-2.2	-0.9	1.3	1.2	-2.1*	1.8*	-18.7*	3.2*	-10.7*	-7.3*	0.6	4.4*	-15.2*	-2.1	1.0	-1.0	3.8	1.8	7.1*
STD ERR OF DP		1.9	1.6	1.6	1.9	1.0	0.8	2.7	0.6	3.8	2.2	1.4	1.1	3.4	3.6	1.4	2.6	3.3	2.2	2.3
P-VALUE	81.0	78.8	80.2	82.3	82.2	79.0	82.8	62.3	84.3	70.3	73.7	81.6	85.4	65.8	78.9	82.0	80.1	84.8	82.8	88.1
STD ERR OF P	1.0	2.1	1.8	1.8	2.3	1.5	1.2	2.9	1.0	3.9	2.4	1.7	1.4	3.6	3.8	1.6	2.7	3.4	2.0	2.6
AGE: Ad																				
DELTA-P	75.0	-3.2	-1.0	3.6*	-0.4	1.6	-1.5	-29.8*	4.4*	-8.4*	-1.7	1.9	8.7*	-17.8*	5.9*	0.6	-0.9	-3.0	1.3	8.7*
STD ERR OF DP		2.2	1.8	1.7	1.9	1.1	1.0	3.5	0.6	2.2	2.8	2.1	1.6	4.1	1.9	1.3	2.7	4.8	2.6	2.7
P-VALUE	75.0	71.8	74.0	78.6	74.6	76.6	73.5	45.2	79.4	66.6	73.3	76.9	83.7	57.2	80.9	75.6	74.1	72.0	76.3	83.7
STD ERR OF P	1.1	2.5	2.2	2.0	2.2	1.6	1.4	3.6	0.9	2.6	2.9	2.4	1.8	4.1	1.8	1.7	2.8	5.1	2.7	3.0
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	13.9	-4.2*	0.9	2.0	1.2	0.1	-0.1	-1.3	-0.2	0.9	-2.9	-3.8*	-2.7*	5.9	-3.7	-1.8	-1.2	3.6	4.7	-3.1
STD ERR OF DP		1.1	1.8	1.8	1.9	0.8	0.8	2.3	0.5	3.8	2.6	1.2	0.9	4.1	1.9	1.2	1.6	1.9	3.2	2.4
STD ERR OF P	1.0	0.8	2.1	2.2	2.3	1.2	1.3	2.4	1.0	3.9	2.6	1.5	1.2	4.4	1.9	1.4	1.3	2.1	3.4	2.8
AGE: 13																				
DELTA-P	0.7	0.5	-0.4	-0.1	0.1	0.3	-0.3	1.7*	-0.3*	0.5	-0.4	-0.3	-0.3	1.1	-0.7*	-0.0	0.1	1.0	-0.3	-0.7*
STD ERR OF DP		0.5	0.2	0.3	0.3	0.2	0.2	0.8	0.1	0.9	0.3	0.3	0.2	0.9	0.2	0.3	0.5	0.9	0.4	0.2
STD ERR OF P	0.2	0.6	0.2	0.3	0.4	0.3	0.2	0.9	0.2	1.0	0.3	0.3	0.2	0.9	0.0	0.3	0.5	1.0	0.4	0.0
AGE: 17																				
DELTA-P	0.4	0.1	0.2	-0.1	-0.1	-0.0	0.0	0.9	-0.1	1.2*	-0.0	-0.2	-0.3*	-0.3	0.0	0.2	-0.1	0.7	-0.3*	-0.4*
STD ERR OF DP		0.2	0.1	0.2	0.2	0.1	0.1	0.5	0.1	0.3	0.2	0.1	0.1	0.1	0.3	0.1	0.2	0.8	0.1	0.1
STD ERR OF P	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.6	0.1	0.3	0.3	0.1	0.1	0.1	0.3	0.1	0.2	0.9	0.1	0.0

EXERCISE: UC09

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

RESPONSE: 03 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.3	-0.2	-0.1	-0.8	1.1	-0.1	0.1	3.2	-0.8*	1.7*	-0.6	-0.8	-0.7	4.0	-0.8	-0.5	-1.0*	1.5	-0.1	-1.0
STD ERR OF DP		0.6	0.8	0.4	0.8	0.3	0.3	2.1	0.4	0.8	0.6	0.4	0.4	2.4	0.6	0.4	0.5	2.0	0.8	0.5
STD ERR OF P	0.4	0.6	0.9	0.3	1.0	0.4	0.6	2.3	0.2	1.1	0.6	0.3	0.5	2.6	0.6	0.4	0.3	2.2	0.8	0.4

Report #: MC10

NAEP #: C10044-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social,
Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 04-25
National P-value:
MC10 57.49

Timing: (in seconds)
MC10 Exercise total: 37

EXERCISE: UC10

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	SIZE-AND-TYPE OF COMMUNITY EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY MAIN BIG CITY	SIZE-AND-TYPE OF COMMUNITY URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.3	-0.6	0.4	0.3	-0.2	0.3	-0.3	1.1	-0.4*	2.3	-0.9	0.1	-0.8**	3.2*	0.5	-0.7	1.0	-0.1	-0.6	-0.8
STD ERR OF DP		0.4	0.5	0.5	0.4	0.3	0.3	0.7	0.2	2.0	0.5	0.5	0.3	1.3	0.9	0.4	1.1	0.7	0.4	0.4
STD ERR OF P	0.3	0.3	0.6	0.7	0.4	0.5	9.3	0.6	0.3	2.1	0.4	0.6	0.2	1.3	1.0	0.3	1.3	0.7	0.4	0.4
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	57.5	-8.1**	-0.1	1.8	6.1**	1.8	-1.7	-28.5**	6.1**	-12.1**	-5.6	2.0	10.9**	-20.1**	-13.6**	-2.2	6.2*	-3.4	6.7	15.4**
STD ERR OF DP		3.0	2.3	2.8	2.1	1.1	1.1	2.9	0.9	4.1	5.7	2.3	1.2	7.6	4.1	2.0	2.6	5.0	4.7	2.1
P-VALUE	57.5	49.4	57.4	59.2	63.6	59.3	55.8	29.0	63.6	45.8	51.9	59.5	68.4	37.4	43.9	55.3	63.7	54.1	64.2	72.9
STD ERR OF P	1.6	3.4	2.3	3.7	2.1	1.8	2.0	3.0	1.6	4.3	5.6	2.7	1.5	7.7	4.0	2.2	2.6	5.2	5.3	2.4
RESPONSE: 19 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	7.2	-0.3	1.4	-0.2	-0.8	-2.5**	2.4**	2.0	-0.4	-1.3	-4.6**	-0.2	-2.1**	0.7	-2.0	0.6	-0.7	0.8	-0.1	-0.6
STD ERR OF DP		1.0	1.5	1.1	1.1	0.6	0.6	1.4	0.3	1.9	1.5	1.2	0.8	2.3	1.6	1.0	1.2	2.4	1.8	1.3
STD ERR OF P	0.7	1.0	1.8	1.4	1.2	0.7	1.1	1.5	0.8	1.9	1.3	1.5	0.9	2.4	1.7	1.3	1.1	2.6	2.0	1.4

Report #: UC11

NAEP #: C10049-23

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		07-01	04-21
National P-value:			
	UC11	66.40	85.38

Timing: (in seconds)

		13	17
UC11	Exercise total:	30	30

EXERCISE: 0C11

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	[illegible]	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	1.9	0.3	0.6	-0.7	-0.0	0.1	-0.1	4.7*	-0.9*	1.2	-0.2	-0.0	-1.1*	6.3*	0.1	-0.7	-0.1	-0.2	-0.3	-1.6*
STD ERR OF DP		0.5	0.8	0.5	0.6	0.3	0.3	1.4	0.3	1.2	0.8	0.5	0.3	2.7	0.7	0.4	0.8	0.8	0.8	0.5
STD ERR OF P	0.3	0.6	0.9	0.5	0.7	0.5	0.4	1.6	0.3	1.3	0.8	0.6	0.3	2.9	0.8	0.4	0.9	0.7	0.8	0.3
AGE: 17																				
DELTA-P	1.4	-0.8	-0.3	0.8	0.0	0.2	-0.2	3.2*	-0.5*	0.2	0.4	-0.2	-0.8*	1.5	-0.1	-1.1*	-1.1*	1.9	1.0	0.7
STD ERR OF DP		0.5	0.5	0.9	0.6	0.2	0.2	1.2	0.2	0.4	0.9	0.3	0.2	1.1	0.5	0.4	0.5	1.4	1.9	1.3
STD ERR OF P	0.4	0.3	0.3	1.3	0.6	0.4	0.5	1.3	0.5	0.2	0.9	0.6	0.3	1.2	0.3	0.2	0.2	1.4	2.3	1.3
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	66.4	-8.7*	-4.9*	8.1*	3.8	-0.7	0.7	-27.4*	5.5*	-14.5*	-9.4*	0.2	9.5*	-28.8*	2.8	-1.7	1.7	-5.3	5.5	15.4*
STD ERR OF DP		2.7	2.5	2.2	3.2	0.9	0.9	3.4	0.9	3.7	3.3	1.7	1.2	5.2	5.6	2.4	2.7	4.2	3.1	3.1
P-VALUE	66.4	57.7	61.5	74.5	70.2	65.7	67.1	39.0	71.9	51.9	57.0	66.6	75.9	37.6	69.2	64.7	68.1	61.1	71.9	81.8
STD ERR OF P	1.5	3.0	2.6	2.4	4.0	1.9	1.7	3.5	1.5	4.3	3.8	2.2	1.6	5.4	6.0	2.8	2.5	4.5	3.1	3.1
AGE: 17																				
DELTA-P	85.4	-4.7*	-0.4	0.2	3.6*	0.7	-0.7	-21.0*	3.5*	-10.5*	-8.5*	0.4	5.0*	-14.9*	-3.4	-0.2	1.5	0.3	5.5*	4.8
STD ERR OF DP		1.9	1.7	1.7	1.4	0.8	0.9	4.4	0.7	3.4	2.6	1.2	1.0	3.7	3.1	1.4	1.8	3.4	2.4	2.7
P-VALUE	85.4	80.7	85.0	85.6	89.0	86.1	84.7	64.4	88.9	74.9	76.9	85.8	90.4	70.5	82.0	85.[illegible]	86.8	85.6	90.9	90.2
STD ERR OF P	1.0	2.1	1.9	2.2	1.5	1.2	1.4	4.8	0.9	3.6	2.9	1.6	1.1	4.0	3.1	1.[illegible]	1.9	3.6	2.5	2.8
RESPONSE: 03 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	5.4	2.0	1.8	-1.6*	-1.7*	0.2	-0.2	2.2	-0.8*	0.5	-0.1	0.7	-1.3	4.9	1.4	0.1	-1.3	0.1	-1.3	-1.6
STD ERR OF DP		1.1	1.3	0.7	0.7	0.5	0.5	1.4	0.3	1.8	1.6	0.7	0.7	2.5	1.7	0.8	1.2	1.1	1.5	1.0
STD ERR OF P	0.6	1.3	1.7	0.5	0.6	0.8	0.7	1.5	0.6	1.8	1.6	1.0	0.7	2.6	1.8	1.0	1.2	1.2	1.7	0.9
AGE: 17																				
DELTA-P	3.0	1.0	1.3	-0.9	-0.9	-0.0	0.0	5.1*	-0.7*	5.3	2.0	-1.3*	-0.6	2.8	0.7	0.3	0.7	-0.6	-1.9*	-1.5
STD ERR OF DP		1.0	1.0	0.7	0.8	0.5	0.5	1.9	0.3	3.0	1.0	0.6	0.5	2.2	2.3	0.8	0.9	1.5	0.8	0.9
STD ERR OF P	0.5	1.1	1.1	0.8	0.9	0.7	0.6	2.1	0.5	3.2	1.1	0.8	0.6	2.4	2.5	1.0	0.9	1.5	0.8	0.9

Report #: UC12

NAEP #: C10051-23

Content Area: C. ARITHMETIC COMPUTATION

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17
Package-Exercise:		07-31	09-21
National P-value:			
	UC12	39.36	63.52

Timing: (in seconds)			
UC12	Exercise total:	47	46

EXERCISE: UC12

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective V.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	3.9	-1.1	3.6	-0.3	-2.1	0.4	-0.4	0.8	-0.4	4.1*	-0.2	0.0	-1.1*	-1.8	3.8	-1.3	-1.1	2.8	2.9	-3.3#
STD ERR OF DP		1.1	2.6	1.9	1.2	0.3	0.3	1.7	0.3	1.9	0.9	0.6	0.5	1.6	4.9	1.1	1.9	4.1	3.7	1.1
STD ERR OF P	1.0	0.4	3.3	2.3	0.7	1.1	1.1	1.9	1.1	2.6	1.2	1.1	1.2	1.0	5.5	0.6	1.9	4.5	4.1	0.5
AGE: 17																				
DELTA-P	1.2	0.2	0.0	0.6	-0.8*	0.5	-0.5	2.2	-0.5	1.2	-0.5	-0.1	-0.2	0.3	-1.0*	-0.5	1.5	0.3	1.0	-1.0*
STD ERR OF DP		0.6	0.7	0.7	0.4	0.3	0.3	1.5	0.3	1.0	0.4	0.4	0.3	0.7	0.4	0.4	1.5	1.1	1.1	0.4
STD ERR OF P	0.3	0.6	0.8	0.9	0.2	0.5	0.4	1.7	0.3	1.1	0.4	0.6	0.5	0.7	0.2	0.4	1.7	1.1	1.3	0.3
RESPONSE: 10* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	39.4	-3.0	1.3	1.9	-0.6	1.4	-1.4	-24.1#	5.2#	-14.7#	-5.8	-1.8	9.1#	-21.6#	3.8	-0.1	3.6	-8.8#	-1.8	15.3#
STD ERR OF DP		2.8	3.0	2.4	2.8	1.2	1.2	2.4	0.7	3.2	3.5	1.4	1.4	4.2	5.2	2.2	2.8	2.8	3.4	4.2
P-VALUE	39.4	36.3	40.7	41.2	38.8	40.8	38.0	15.2	44.6	24.7	33.5	37.6	48.5	17.8	43.2	39.2	43.0	30.6	37.6	54.7
STD ERR OF P	1.6	3.1	3.5	2.7	3.4	2.1	2.0	1.9	1.8	3.5	3.9	2.3	2.1	4.4	5.7	2.7	3.1	2.8	3.5	4.3
AGE: 17																				
DELTA-P	63.5	-0.4	-0.6	-1.4	2.3	4.3#	-4.0#	-28.0#	6.0#	-15.3#	-15.9#	-3.9*	11.2#	-20.1#	1.1	5.2#	1.8	-5.8	-1.5	5.8
STD ERR OF DP		2.3	2.2	2.4	2.4	1.1	1.0	2.8	0.9	4.2	3.2	1.9	1.3	3.7	3.6	1.7	3.8	5.6	2.7	3.2
P-VALUE	63.5	63.1	63.0	62.2	65.8	67.9	59.5	35.5	69.6	48.2	47.6	59.7	74.7	43.4	64.6	68.7	65.3	57.7	62.0	69.3
STD ERR OF P	1.4	2.4	2.3	3.0	2.9	1.7	1.7	3.0	1.4	4.1	3.4	2.4	1.7	3.8	3.5	1.8	4.1	6.2	2.9	3.6
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	8.8	2.0	-0.2	-2.0	0.6	-1.3*	1.2*	7.6#	-1.6#	3.2	4.6	1.3	-4.7#	10.5#	0.1	0.5	-5.0#	3.9*	-0.4	-4.1*
STD ERR OF DP		1.5	1.3	1.0	1.6	0.6	0.6	2.2	0.4	3.2	2.7	0.9	0.7	3.8	1.6	1.2	1.1	1.9	2.0	2.0
STD ERR OF P	0.8	1.8	1.4	1.0	2.0	1.0	1.0	2.5	0.8	3.4	2.8	1.3	0.8	4.0	1.7	1.5	1.0	2.0	2.1	2.1
AGE: 17																				
DELTA-P	5.0	2.0#	0.7	-0.1	-2.1#	-0.7	0.7	4.3#	-1.1#	7.7#	3.7*	-0.1	-2.6#	5.4*	-1.9*	-0.2	0.5	-3.2#	-1.7	0.9
STD ERR OF DP		0.7	0.8	0.6	0.8	0.5	0.4	1.5	0.3	1.9	1.6	0.6	0.4	2.3	0.9	0.5	1.2	0.9	1.1	1.4
STD ERR OF P	0.4	0.7	1.0	0.8	0.9	0.5	0.7	1.7	0.4	2.0	1.6	0.8	0.5	2.4	0.8	0.6	1.2	0.9	1.1	1.6

Report #: UC13

NAEP #: C10053-4

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		Adult
Package-Exercise:		03-18
National P-value:		
	UC13	74.79

Timing: (in seconds)
UC13 Exercise total: *

*Time not limited by paced tape.

976

EXERCISE: UC13

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION SOUTH EAST	 WEST	 CENTRAL	 NORTH EAST	SEX MALE	 FEMALE	RACE BLACK	 WHITE	PARENTAL EDUCATION NO HS	 SOME HS	 GRAD HS	 POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	 EXTREME RURAL	 SMALL PLACES	 MEDIUM CITY	 MAIN BIG CTY	 URBAN FRINGE	 HIGH METRO
RESPONSE: 00 AGE: Ad	TEXT: No Response.																			
DELTA-P	0.6	0.4	-0.6	-0.6	1.0	0.4	-0.4	2.6	-0.3	0.1	-0.1	0.4	-0.6	2.4	-0.1	0.1	-0.6	-0.6	-0.6	-0.6
STD ERR OF DP		0.5	0.3	0.3	1.0	0.4	0.3	2.4	0.3	0.4	0.5	0.7	0.3	2.6	0.4	0.3	0.3	0.3	0.3	0.3
STD ERR OF P	0.3	0.5	0.0	0.0	1.2	0.7	0.1	2.7	0.2	0.4	0.5	0.9	0.0	2.9	0.4	0.3	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: Ad	TEXT: All Acceptable Responses.																			
DELTA-P	74.8	-0.6	-5.0	-0.4	6.5*	7.0*	-6.5*	-37.9*	6.8*	-8.9*	-4.3	4.0*	10.9*	-25.9*	5.9*	1.3	0.4	-0.4	3.4	8.3*
STD ERR OF DP		2.7	2.6	2.5	2.1	1.2	1.1	3.2	0.9	2.4	3.1	1.9	1.6	5.0	2.3	1.6	4.0	4.4	3.9	3.6
P-VALUE	74.8	74.2	69.8	74.4	81.3	81.8	68.3	36.9	81.6	65.9	70.5	78.8	85.7	48.9	80.7	76.1	75.2	74.4	78.2	83.0
STD ERR OF P	1.5	3.0	3.1	3.1	2.2	1.8	1.9	3.5	1.1	2.9	3.2	2.3	2.0	5.4	2.3	2.0	4.4	4.2	4.5	3.8
RESPONSE: 39 AGE: Ad	TEXT: I Don't Know.																			
DELTA-P	6.4	1.2	1.4	-0.8	-1.6	-3.5*	3.2*	17.5*	-2.7*	2.7*	1.1	-1.6	-3.9*	11.4*	-4.0*	0.1	1.8	-1.3	-0.2	-6.4*
STD ERR OF DP		1.7	1.7	1.1	1.1	0.8	0.8	3.7	0.6	1.3	1.7	1.0	1.0	3.4	1.2	0.9	1.8	2.1	2.5	0.8
STD ERR OF P	0.8	1.9	2.2	1.2	1.1	0.5	1.5	4.2	0.6	1.6	2.1	1.1	1.0	3.8	1.0	1.1	2.0	2.0	2.8	0.0

Report #: UC14

NAEP #: C10076-1234

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple part short answer
Scoring Type: Professional
Administration Mode: Individual

Age:		9	13	17	Adult
Package-Exercise:		08-06	11-04	14-07	04-07
National P-value:					
	UC14A	72.26	89.42	93.48	93.37
	UC14B	27.98	70.96	80.45	86.93
	UC14C	5.06	66.56	77.48	77.33

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UC14

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

Part A.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.1	0.1	-0.4	-0.3	0.7	0.1	-0.1	0.4	-0.2	0.9	-0.3	0.1	-0.6*	1.6	0.3	-0.4	-0.1	-0.3	0.5	-0.5
STD ERR OF DP		0.5	0.4	0.4	0.6	0.2	0.3	0.6	0.1	1.3	0.5	0.4	0.3	1.3	0.7	0.3	0.7	0.6	1.0	0.6
STD ERR OF P	0.3	0.7	0.4	0.4	0.7	0.4	0.3	0.7	0.3	1.4	0.8	0.5	0.3	1.4	0.8	0.3	0.7	0.6	1.1	0.6
AGE: 13 Response did not occur at this age.																				
AGE: 17																				
DELTA-P	0.1	-0.1	0.2	-0.1	0.1	0.1	-0.1	0.2	-0.1	-0.1	-0.1	0.1	-0.1	0.7	-0.1	-0.1	0.0	0.4	-0.1	-0.1
STD ERR OF DP		0.1	0.2	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.7	0.1	0.1	0.2	0.5	0.1	0.1
STD ERR OF P	0.1	0.0	0.3	0.0	0.2	0.2	0.0	0.3	0.0	0.0	0.0	0.2	0.1	0.7	0.0	0.0	0.2	0.5	0.0	0.0
AGE: Ad																				
DELTA-P	0.2	0.5	-0.1	-0.2*	-0.2*	-0.1	0.1	1.2	-0.1	0.4	-0.0	-0.2*	-0.2*	-0.2*	-0.2*	-0.1	1.1	-0.2*	-0.2*	-0.2*
STD ERR OF DP		0.3	0.1	0.1	0.1	0.1	0.1	0.7	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.6	0.1	0.1	0.1
STD ERR OF P	0.1	0.4	0.1	0.0	0.0	0.1	0.2	0.7	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	72.3	-5.3	2.1	-0.8	3.7	-1.3	1.3	-11.3*	2.6*	-10.0*	-8.8*	-2.0	4.1*	-4.3	-8.7*	-0.9	0.1	0.7	4.8	5.0
STD ERR OF DP		2.7	2.1	2.1	2.1	1.0	1.0	2.5	0.6	4.6	3.8	2.1	1.4	3.1	3.0	1.6	3.4	3.2	2.7	3.4
P-VALUE	72.3	67.0	74.4	71.4	76.0	71.0	73.6	60.9	74.8	62.2	63.4	70.3	76.4	67.9	63.6	71.4	72.4	73.0	77.0	77.3
STD ERR OF P	1.3	3.3	2.3	2.5	2.3	1.6	1.7	2.7	1.6	4.7	4.0	2.6	1.7	3.0	3.2	1.8	4.6	3.3	2.9	3.8
AGE: 13																				
DELTA-P	89.4	-2.5	1.0	0.7	0.4	-1.2	1.3	-4.3	0.7	-1.7	-1.8	-0.7	2.5*	2.8	-3.0	-0.8	2.0	1.5	1.2	-2.0
STD ERR OF DP		3.0	1.4	1.3	1.6	0.7	0.7	2.3	0.5	2.4	2.2	1.3	1.1	1.8	1.9	1.5	1.9	2.6	2.0	2.2
P-VALUE	89.4	86.9	90.5	90.1	89.8	88.2	90.7	85.1	90.1	87.7	87.6	88.7	91.9	92.2	86.4	88.6	91.4	90.9	90.6	87.4
STD ERR OF P	1.0	3.8	1.2	1.2	1.7	1.4	1.1	2.4	1.3	2.8	2.7	2.1	0.9	1.7	2.5	2.1	1.9	2.9	2.0	2.2
AGE: 17																				
DELTA-P	93.5	-3.2*	0.2	2.3*	-0.0	0.4	-0.4	-6.6*	1.4*	-2.6	-1.8	1.9*	0.4	-5.0*	0.7	1.4	-1.6	-2.0	0.7	1.6
STD ERR OF DP		1.2	1.0	0.9	1.0	0.5	0.5	1.6	0.3	1.8	1.2	0.7	0.6	2.1	1.3	0.6	1.3	1.7	1.7	2.1
P-VALUE	93.5	90.3	93.7	95.8	93.5	93.9	93.1	86.9	94.9	90.8	91.7	95.4	93.9	88.5	94.1	94.8	91.8	91.5	94.2	95.1
STD ERR OF P	0.6	1.3	1.1	1.0	1.1	0.8	0.7	1.7	0.6	1.9	1.2	0.8	0.8	2.2	1.3	1.1	1.4	1.7	1.7	2.1
AGE: Ad																				
DELTA-P	93.4	-2.6	0.4	1.0	0.7	0.8	-0.8	-9.6*	1.2*	-1.4	-1.0	0.9	2.5*	-7.7*	-1.1	-0.8	1.5	2.0	2.5	4.0*
STD ERR OF DP		1.7	1.3	0.9	1.0	0.6	0.6	2.7	0.4	1.1	1.4	1.1	0.9	3.0	2.3	0.8	1.5	2.6	1.7	1.0
P-VALUE	93.4	90.8	93.8	94.4	94.1	94.2	92.6	83.7	94.6	92.0	92.4	94.3	95.9	85.7	92.2	92.6	94.8	95.4	95.9	97.4
STD ERR OF P	0.7	2.1	1.6	0.9	1.0	1.0	0.9	3.1	0.6	1.0	1.4	1.3	1.2	3.4	2.4	0.9	1.5	2.7	1.7	1.2
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	0.5	0.1	0.2	0.1	-0.4*	0.1	-0.2	0.2	-0.2*	0.3	0.6	-0.1	-0.2	-0.2	1.1	0.3	-0.1	0.0	-0.5*	-0.5*
STD ERR OF DP		0.4	0.3	0.3	0.2	0.1	0.2	0.4	0.1	0.8	1.0	0.2	0.2	0.3	0.8	0.3	0.3	0.4	0.2	0.2
STD ERR OF P	0.2	0.5	0.3	0.4	0.1	0.3	0.2	0.5	0.2	0.9	1.1	0.3	0.2	0.3	0.9	0.4	0.4	0.4	0.0	0.0
AGE: 13																				
DELTA-P	0.1	-0.0	-0.1	0.1	-0.1	0.1	-0.1	0.3	-0.1	0.6	-0.1	-0.0	-0.1	0.1	-0.1	-0.1	0.3	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.2	0.0	0.1	0.0	0.4	0.0	0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF DP		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

EXERCISE: UC14

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

Part A.

RESPONSE: 09 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.1	0.4	-0.1	-0.1	-0.1	0.0	0.0	0.4	-0.0	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	0.2	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.3	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.0	0.0	0.0	0.1	0.1	0.5	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

EXERCISE: UC14

Part B.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.4	0.0	-0.7	0.2	0.6	-0.0	0.0	1.5	-0.4	2.8	1.1	0.7	-1.9*	5.2*	-1.6	-0.4	-0.1	-0.5	0.2	-1.0
STD ERR OF DP		0.7	0.7	0.8	0.8	0.4	0.4	1.0	0.2	2.2	2.4	0.7	0.5	2.1	1.0	0.6	1.1	1.1	1.3	0.9
STD ERR OF P	0.4	0.8	0.7	1.0	1.0	0.6	0.6	1.1	0.5	2.3	2.4	0.9	0.5	2.3	0.9	0.8	1.3	1.1	1.4	0.9

AGE: 13

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.2	-0.1	0.1	-0.1	0.1	0.1	-0.1	0.2	-0.0	0.9	0.3	-0.1	-0.2*	-0.2*	-0.2*	0.2	0.1	0.2	-0.2*	-0.2*
STD ERR OF DP		0.1	0.2	0.2	0.2	0.1	0.1	0.3	0.1	0.7	0.4	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.1	0.1
STD ERR OF P	0.1	0.1	0.2	0.2	0.3	0.2	0.1	0.4	0.1	0.8	0.4	0.2	0.0	0.0	0.0	0.3	0.4	0.4	0.0	0.0

AGE: 17

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.1	-0.0	0.1	-0.1*	0.1	0.1	-0.1*	0.4	-0.1	-0.1*	-0.1*	-0.1*	-0.1*	-0.1*	-0.1*	-0.1*	0.0	0.4	0.3	-0.1*
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.3	0.1
STD ERR OF P	0.1	0.1	0.2	0.0	0.2	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.3	0.0

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.2	0.3	-0.2	-0.2	0.1	-0.2	0.2	0.6	-0.1	0.2	-0.2	0.0	-0.2	-0.2	-0.2	0.1	0.5	-0.2	-0.2	-0.2
STD ERR OF DP		0.3	0.1	0.1	0.2	0.1	0.1	0.6	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.0	0.0	0.2	0.0	0.2	0.6	0.1	0.3	0.0	0.2	0.0	0.0	0.0	0.2	0.5	0.0	0.0	0.0

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	28.0	-9.9*	-3.9*	7.4*	5.1*	-3.2*	3.3*	-12.5*	2.9*	-15.0*	-12.9*	-0.5	4.2*	-8.2*	-8.0	0.7	0.9	-1.5	5.6	3.2
STD ERR OF DP		1.8	1.9	2.7	2.5	0.9	1.0	2.5	0.6	2.9	3.3	1.8	1.2	3.6	4.2	2.4	2.5	5.0	3.4	3.2
P-VALUE	28.0	18.1	24.1	35.4	33.0	24.8	31.3	15.5	30.8	13.0	15.1	27.5	32.2	19.8	20.0	28.7	28.9	26.3	33.6	31.2
STD ERR OF P	1.3	1.8	1.9	3.4	3.0	1.7	1.6	2.4	1.6	2.8	3.0	2.5	1.9	3.5	4.1	3.0	2.5	5.3	3.7	3.4

AGE: 13

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	71.0	-5.1	-0.3	2.5	1.9	-3.2*	3.3*	-13.8*	3.3*	-17.7*	-2.1	0.6	6.3*	-11.7	1.2	-0.5	1.4	-4.6*	5.3*	3.3
STD ERR OF DP		2.7	1.9	2.2	2.2	1.1	1.1	4.0	0.8	3.8	3.2	1.7	1.5	5.9	4.5	2.2	2.7	2.3	2.6	3.1
P-VALUE	71.0	65.9	70.6	73.5	72.9	67.8	74.2	57.1	74.3	53.2	68.9	71.6	77.3	59.2	72.1	70.5	72.4	66.4	76.2	74.3
STD ERR OF P	1.3	3.2	2.0	2.7	2.5	1.7	1.7	4.4	1.3	3.9	3.5	2.2	1.4	6.4	4.7	2.8	2.9	2.3	2.7	3.0

AGE: 17

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	80.5	-5.8*	-0.2	2.1	2.6	-2.3*	2.2*	-17.0*	3.2*	-8.2*	-10.0*	2.4	3.2*	-9.8*	0.4	-0.3	-4.3	0.7	5.0*	6.4*
STD ERR OF DP		1.9	1.7	1.7	2.2	1.1	1.0	2.5	0.5	2.7	2.5	1.2	1.0	3.6	4.5	1.5	2.2	2.9	2.5	3.0
P-VALUE	80.5	74.7	80.2	82.6	83.0	78.1	82.6	63.5	83.6	72.3	70.5	82.8	83.6	70.7	80.8	80.2	76.1	81.1	85.5	86.8
STD ERR OF P	1.1	2.0	1.8	1.9	2.8	1.6	1.4	2.7	1.1	2.8	2.6	1.6	1.6	3.7	4.7	2.0	2.4	3.0	2.4	3.2

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	86.9	-5.1*	1.6	-0.3	3.1*	0.8	-0.7	-20.3*	3.1*	-5.1*	0.8	1.4	5.1*	-10.9*	2.3	1.1	-0.3	1.7	-1.4	4.1*
STD ERR OF DP		2.2	1.4	1.3	1.3	0.8	0.8	3.1	0.6	1.6	1.8	1.4	1.3	4.4	2.1	1.0	2.5	2.7	2.3	1.9
P-VALUE	86.9	81.9	88.5	86.7	90.1	87.7	86.2	66.7	90.0	81.9	87.8	88.4	92.0	76.1	89.2	88.0	86.6	88.6	85.5	91.0
STD ERR OF P	0.9	2.7	1.6	1.4	1.3	1.2	1.1	3.4	0.8	2.0	2.0	1.5	1.3	4.6	2.2	1.3	2.7	2.7	2.5	1.9

RESPONSE: 09 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	5.8	0.8	0.2	-1.4	0.6	0.8	-0.9	3.8*	-1.0*	3.3	-1.3	0.7	-2.7*	4.1	2.5	-0.5	-1.8	2.9	-1.8	-1.7
STD ERR OF DP		1.4	1.0	1.1	1.3	0.6	0.6	1.9	0.4	2.5	1.8	0.9	0.7	2.7	2.8	0.9	1.3	2.4	1.7	1.3
STD ERR OF P	0.7	1.7	1.1	1.2	1.5	1.0	0.8	2.2	0.7	2.5	2.0	1.2	0.6	2.9	3.0	1.1	1.2	2.6	1.8	1.2

EXERCISE: UC15

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

Part B.

RESPONSE: 99 AGE: 13 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.4	0.1	0.4	-0.1	-0.4*	0.1	-0.1	0.1	-0.2	0.3	0.1	-0.2	-0.2	1.0	0.5	-0.3	-0.0	0.6	-0.4*	-0.4*
STD ERR OF DP		0.2	0.4	0.2	0.2	0.2	0.2	0.3	0.1	0.5	0.4	0.2	0.2	0.8	0.8	0.2	0.3	0.6	0.1	0.1
STD ERR OF P	0.1	0.2	0.5	0.3	0.1	0.2	0.2	0.3	0.1	0.5	0.4	0.2	0.2	0.8	0.9	0.1	0.3	0.7	0.0	0.0
AGE: 17																				
DELTA-P	0.5	0.5*	-0.5*	-0.2	0.4*	-0.4*	0.3*	2.5*	-0.3*	-0.5*	2.6*	-0.5*	-0.3*	0.3	-0.5*	-0.4*	2.2*	-0.5*	-0.4*	-0.5*
STD ERR OF DP		0.1	0.1	0.2	0.1	0.1	0.1	0.3	0.0	0.1	0.3	0.1	0.1	0.6	0.1	0.1	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.3	0.1	0.0	0.3	0.0	0.2	0.7	0.0	0.1	0.3	0.0	0.1	0.0
AGE: Ad																				
DELTA-P	0.8	1.7	-0.0	-0.6	-0.8*	0.0	-0.0	4.2	-0.6	-0.4	-0.8*	-0.3	-0.8*	5.1	-0.4	-0.3	-0.6	-0.8*	-0.8*	-0.8*
STD ERR OF DP		1.1	0.5	0.4	0.3	0.4	0.3	2.5	0.3	0.4	0.3	0.4	0.3	2.8	0.5	0.4	0.4	0.3	0.3	0.3
STD ERR OF P	0.3	1.4	0.5	0.2	0.0	0.6	0.3	2.8	0.1	0.2	0.0	0.3	0.0	3.1	0.4	0.2	0.2	0.0	0.0	0.0

EXERCISE: UC15

Part C.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	14.1	-1.0	-1.3	0.5	1.7	-0.5	0.5	-0.7	-0.1	0.7	-1.2	-1.6	-2.5*	5.4	-4.7	0.8	1.7	-0.1	2.4	-7.0*
STD ERR OF DP		2.6	2.8	2.1	2.3	0.7	0.8	2.4	0.5	3.7	3.2	1.4	1.2	4.0	2.3	1.4	3.7	3.2	2.9	2.5
STD ERR OF P	1.4	3.0	3.3	2.3	2.6	1.4	1.7	2.3	1.6	3.6	3.4	1.9	1.5	3.8	2.2	2.1	4.3	3.3	3.4	2.6
AGE: 13																				
DELTA-P	1.0	0.3	-0.4	0.1	-0.0	0.2	-0.2	2.7*	-0.4	0.2	-0.1	-0.3	-0.4	1.7	0.1	0.0	-0.1	0.3	-0.4	-1.0*
STD ERR OF DP		0.6	0.4	0.5	0.5	0.3	0.3	1.2	0.2	0.8	0.6	0.3	0.3	1.8	1.1	0.4	0.6	0.7	0.4	0.3
STD ERR OF P	0.3	0.7	0.3	0.7	0.5	0.4	0.4	1.3	0.2	0.9	0.7	0.3	0.3	2.0	1.2	0.5	0.6	0.8	0.3	0.0
AGE: 17																				
DELTA-P	1.0	0.1	-0.3	0.9	-0.7*	0.7*	-0.6*	1.4*	-0.2*	2.8*	0.1	0.3	-0.8*	1.9*	0.2	-0.5	-0.7*	1.4	0.5	-0.9*
STD ERR OF DP		0.5	0.3	0.7	0.3	0.3	0.3	0.4	0.1	1.3	0.4	0.5	0.2	0.5	1.1	0.3	0.4	2.1	0.9	0.3
STD ERR OF P	0.3	0.5	0.2	0.9	0.2	0.6	0.0	0.3	0.3	1.5	0.4	0.6	0.2	0.5	1.1	0.1	0.2	2.3	1.1	0.1
AGE: Ad																				
DELTA-P	0.5	0.3	-0.0	-0.3	0.2	0.1	-0.1	0.3	-0.0	0.6	-0.4*	-0.1	-0.3	0.6	0.4	-0.1	-0.0	0.2	-0.5*	-0.1
STD ERR OF DP		0.3	0.2	0.2	0.3	0.2	0.1	0.6	0.1	0.4	0.2	0.2	0.2	0.6	0.4	0.2	0.5	0.7	0.2	0.4
STD ERR OF P	0.1	0.4	0.3	0.2	0.4	0.2	0.2	0.6	0.2	0.4	0.1	0.2	0.2	0.7	0.4	0.2	0.5	0.8	0.0	0.5

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	5.1	-2.2*	-1.3	0.1	3.2	-0.2	0.2	-2.4*	0.6*	-4.1*	-1.7	-2.2*	2.2*	-2.6	-2.6*	1.3	-0.7	-1.6	0.6	1.8
STD ERR OF DP		1.0	1.2	1.1	1.8	0.6	0.6	1.1	0.2	1.2	1.5	0.8	0.8	1.4	1.0	1.3	1.5	1.7	2.4	1.9
P-VALUE	5.1	2.8	3.8	5.1	8.3	4.9	5.2	2.7	5.7	1.0	3.3	2.9	7.3	2.5	2.5	6.3	4.3	3.5	5.7	6.8
STD ERR OF P	0.8	0.9	1.2	1.3	2.3	1.0	1.0	0.9	0.9	1.0	1.7	0.7	1.3	1.2	0.6	1.7	1.4	1.8	2.6	2.1
AGE: 13																				
DELTA-P	66.6	-7.2*	-1.3	4.1	2.8	-1.9	1.9	-23.2*	5.0*	-15.3*	-11.9*	0.9	9.4*	-20.4*	-2.2	0.2	-0.0	1.2	2.7	9.4*
STD ERR OF DP		2.2	2.5	2.7	2.0	1.2	1.2	3.2	0.9	3.8	3.6	2.1	1.8	4.6	5.1	1.7	2.7	2.9	3.2	2.5
P-VALUE	66.6	59.4	65.3	70.7	69.4	64.6	68.5	43.3	71.6	51.3	54.7	67.4	76.0	46.2	64.3	66.7	66.5	67.8	69.3	75.9
STD ERR OF P	1.4	2.3	2.8	3.5	2.1	1.7	2.0	3.7	1.2	4.3	3.6	2.2	1.9	5.1	5.4	1.7	2.8	3.1	3.8	2.6
AGE: 17																				
DELTA-P	77.5	-7.1*	0.7	0.0	5.0*	-0.0	0.0	-19.7*	3.7*	-13.8*	-8.1*	-2.3	7.2*	-12.4*	-0.2	1.1	-5.7	3.1	2.2	8.1*
STD ERR OF DP		2.3	1.9	1.6	1.5	1.0	0.9	2.3	0.6	4.1	3.2	1.7	1.0	3.3	3.6	1.4	3.3	3.8	2.5	2.2
P-VALUE	77.5	70.4	78.1	77.5	82.5	77.5	77.5	57.8	81.1	63.7	69.3	75.2	84.7	65.1	77.3	78.5	71.8	80.6	79.7	85.6
STD ERR OF P	1.0	2.7	2.3	1.8	1.6	1.5	1.3	2.4	1.1	4.4	3.3	2.0	1.4	3.2	3.9	1.7	3.7	4.1	2.5	2.3

EXERCISE: UC14

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

Part C.

RESPONSE: 01* AGE: Ad TEXT: All Acceptable Responses.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	77.3	[illegible]	-0.2	-1.5	2.5	5.1*	-4.7*	-21.7*	3.3*	-2.9	-2.6	-0.8	9.6*	-14.7*	2.4	-1.0	5.5	2.4	-2.1	8.0*
STD ERR OF DP		[illegible]	2.3	2.2	2.8	1.0	1.0	4.7	0.7	1.9	2.6	1.7	1.7	4.4	2.2	1.7	4.4	4.4	3.5	2.8
P-VALUE	77.3	[illegible]	77.1	75.8	79.8	82.4	72.6	55.7	80.6	74.4	74.7	76.6	86.9	62.6	79.7	76.4	82.9	79.7	75.2	85.3
STD ERR OF P	1.3	[illegible]	2.7	2.7	2.8	1.7	1.6	5.3	1.2	2.1	3.0	2.3	1.8	4.9	2.1	1.9	4.7	4.8	3.7	3.1

RESPONSE: 09 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	34.9	-2.	-0.3	2.7	-0.1	2.3	-2.4	-3.0	0.4	-6.3	0.1	-0.7	-0.6	1.7	6.4	-3.5	-5.9	9.5*	-2.7	5.3
STD ERR OF DP		[illegible]	3.9	3.2	3.3	1.2	1.3	3.2	0.6	4.0	4.7	2.4	1.7	5.4	6.1	2.0	3.9	4.5	3.2	3.8
STD ERR OF P	2.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.4	3.2	2.1	3.7	4.9	3.3	2.4	5.7	6.8	2.5	4.6	4.7	3.9	3.9

AGE: 13

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.6	[illegible]	0.7	-0.5	-0.4	0.3	-0.3	0.8	-0.4*	1.9	0.2	-0.9*	-0.8*	1.8	-1.1	-0.0	0.4	0.9	-0.2	-1.2*
STD ERR OF DP		[illegible]	0.6	0.4	0.4	0.3	0.3	0.7	0.2	1.4	0.9	0.3	0.4	1.0	0.5	0.3	0.7	1.1	0.7	0.4
STD ERR OF P	0.3	[illegible]	0.4	0.4	0.4	0.5	0.3	0.8	0.3	1.5	0.8	0.3	0.4	1.1	0.5	0.4	0.7	1.2	0.7	0.4

AGE: 17

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.6	[illegible]	[illegible]	[illegible]	-0.1	0.1	-0.1	3.0*	-0.6*	2.4	1.6*	[illegible]	[illegible]	0.2	[illegible]	-0.5	2.8*	1.2	-0.6	-1.6*
STD ERR OF DP		0.7	0.4	0.4	0.4	0.3	0.3	0.6	0.2	1.2	0.5	[illegible]	[illegible]	1.1	0.7	0.4	0.7	1.0	0.5	0.3
STD ERR OF P	0.3	[illegible]	[illegible]	0.5	[illegible]	0.4	0.3	0.9	0.2	1.3	0.5	[illegible]	0.2	[illegible]	0.7	0.5	0.7	1.1	0.6	0.1

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.8	2.3	-0.5	-0.7	[illegible]	-0.6	0.6	7.6*	-1.1*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.7	0.5	-1.8*	-0.4	-1.8*
STD ERR OF DP		1.3	0.5	0.6	0.7	0.4	0.4	2.9	0.4	0.7	0.6	[illegible]	[illegible]	3.4	0.8	0.4	0.9	0.4	0.8	0.4
STD ERR OF P	0.4	1.6	0.4	0.5	0.7	[illegible]	0.5	3.1	0.2	0.8	0.5	[illegible]	[illegible]	3.7	0.7	0.4	0.9	0.0	0.8	0.0

Report #: NC15

NAEP #: C20001-123

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17
Package-Exercise:		04-35	07-27	03-26
National P-value:				
	NC15	13.72	68.90	83.74

Timing: (in seconds)				
NC15	Exercise total:	60	45	44

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                                NATION |          REGION             |     SEX       |     RACE     |    PARENTAL EDUCATION        |            SIZE-AND-TYPE OF COMMUNITY
                                       | SOUTH                 NORTH |               |              |          SOME   GRAD   POST  |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                                -------|__EAST__WEST_CENTRAL__EAST__|__MALE__FEMALE_|_BLACK__WHITE_|_NO HS___HS_____HS_____HS___|_METRO__RURAL__PLACES__CITY_BIG CTY_FRINGE_METRO_

EXERCISE: UC15

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.


RESPONSE:  00    AGE:  9       TEXT:  No Response.

     DELTA-P                     1.9     -1.0   -0.4    0.9    0.3     0.4   -0.4     1.1   -0.4     3.3  -1.9#  -0.9   -1.1#     1.2   -0.1   -1.2#  -0.0    2.6    0.8   -0.5
     STD ERR OF DP                        0.5    0.7    0.7    0.7     0.4    0.4     0.8    0.2     2.4    0.4    0.5    0.4      1.1    1.0    0.4    1.2    1.6    0.9    0.8
     STD ERR OF P                0.4      0.5    0.8    1.0    0.7     0.6    0.5     0.9    0.4     2.7    0.0    0.5    0.3      1.2    1.0    0.4    1.4    1.8    1.0    0.8

                  AGE: 13

     DELTA-P                     2.4     -1.9    3.9    0.4   -2.4*    0.2   -0.2     1.5   -0.2     2.4    0.1   -0.3   -0.2     -0.4    4.6   -2.2*  -1.0    3.0    2.4   -2.4*
     STD ERR OF DP                        1.0    2.5    1.9    1.0     0.3    0.3     1.7    0.3     1.3    0.9    0.5    0.4      2.1    4.9    1.0    1.4    4.0    3.8    1.0
     STD ERR OF P                1.0      0.3    3.1    2.3    0.0     1.1    1.0     1.9    1.1     2.1    1.2    1.1    1.1      1.6    5.6    0.2    1.2    4.4    4.2    0.0

                  AGE: 17

     DELTA-P                     0.7     -0.7#  -0.1    0.4    0.3    -0.0    0.0     1.8*  -0.4    -0.7#   0.8   -0.4   -0.5      3.2   -0.6*  -0.5   -0.7#  -0.2    0.4    0.1
     STD ERR OF DP                        0.3    0.4    0.4    0.5     0.2    0.2     0.9    0.2     0.3    1.2    0.2    0.3      2.3    0.3    0.3    0.3    0.5    0.7    0.8
     STD ERR OF P                0.2      0.0    0.4    0.5    0.7     0.3    0.4     1.0    0.2     0.0    1.3    0.2    0.2      2.5    0.2    0.1    0.0    0.5    0.8    0.8

RESPONSE:  10*   AGE:  9       TEXT:  All Acceptable Responses.

     DELTA-P                    13.7     -6.6#   3.7*   1.8    0.8     2.4#  -2.3#  -11.0#   2.6#   -8.1#  -2.6   -0.8    9.3#    -8.5#  -5.7#  -0.5    2.2   -4.0    3.0    7.8#
     STD ERR OF DP                        1.8    1.7    1.7    1.6     0.9    0.8     1.1    0.4     2.2    3.9    1.7    1.3      2.9    2.1    1.4    2.2    2.2    2.2    2.7
     P-VALUE                    13.7      7.1   17.4   15.5   14.5    16.1   11.5     2.8   16.3     5.6   11.1   12.9   23.0      5.2    8.0   13.2   15.9    9.7   16.7   21.5
     STD ERR OF P                1.0      2.1    2.0    2.1    1.8     1.4    1.2     1.0    1.1     2.2    4.2    1.9    1.8      2.7    2.0    1.8    2.3    2.2    2.4    2.8

                  AGE: 13

     DELTA-P                    68.9     -8.6#   2.6    5.0   -0.3     1.7   -1.7   -31.1#   6.3#  -18.1# -15.0#   0.2   10.6#   -26.3#   2.4   -3.5    2.6   -5.7    6.0   17.5#
     STD ERR OF DP                        2.3    2.9    2.8    2.9     1.2    1.1     3.1    1.0     4.9    3.6    1.4    1.2      5.7    4.5    2.3    3.2    4.0    4.3    2.1
     P-VALUE                    68.9     60.3   71.5   73.9   68.6    70.6   67.2    37.8   75.2    50.8   53.9   69.1   79.5     42.6   71.3   65.4   71.5   63.2   74.9   86.4
     STD ERR OF P                1.6      2.2    3.4    3.3    3.4     2.1    1.9     3.3    1.6     5.4    3.9    2.1    1.7      5.8    4.9    2.6    3.7    4.3    4.3    1.6

                  AGE: 17

     DELTA-P                    83.7     -5.5#   0.6    1.4    2.5     1.8*  -1.7*  -27.6#   5.3#  -15.6#  -7.8*   2.6    6.9#   -13.4# -10.2#   1.1    5.1#  -4.1    4.4*   7.0#
     STD ERR OF DP                        1.8    2.7    1.6    1.5     0.7    0.7     2.8    0.8     3.5    3.1    1.4    1.1      4.5    3.0    1.5    1.7    3.7    2.1    2.1
     P-VALUE                    83.7     78.2   84.4   85.1   86.3    85.5   82.0    56.1   89.0    68.2   76.0   86.3   90.7     70.3   73.6   84.8   88.8   79.7   88.1   90.8
     STD ERR OF P                1.1      2.0    3.2    2.0    1.4     1.3    1.3     3.2    0.8     3.8    3.3    1.6    1.2      4.9    3.2    1.9    1.6    3.8    2.1    2.1

RESPONSE:  39    AGE:  9       TEXT:  I Don't Know.

     DELTA-P                    19.8     -0.7    2.8   -1.2   -0.7    -5.2#   4.9#    1.0   -0.5    -3.0   -8.8#  -3.5*  -4.0#    -2.8   -4.5    1.3    2.5    0.6   -0.2   -2.2
     STD ERR OF DP                        2.3    1.7    1.5    1.7     1.1    1.0     2.8    0.5     3.3    2.4    1.7    1.4      4.4    3.4    1.6    2.0    2.7    2.2    2.0
     STD ERR OF P                1.0      2.9    1.9    1.7    1.8     1.5    1.5     3.4    0.9     3.1    2.7    1.8    1.4      4.7    3.5    2.1    1.9    2.9    2.5    2.0

                  AGE: 13

     DELTA-P                     1.5      0.6   -0.0   -0.4   -0.1     0.1   -0.1     1.3   -0.4*    1.9    1.7   -0.3   -1.0#     2.7    0.3   -0.2   -0.6    0.7   -0.3   -0.8
     STD ERR OF DP                        0.5    0.4    0.4    0.5     0.3    0.3     0.7    0.2     1.4    1.4    0.4    0.3      1.6    0.8    0.4    0.5    0.8    0.7    0.5
     STD ERR OF P                0.3      0.6    0.3    0.4    0.6     0.4    0.4     0.9    0.3     1.5    1.5    0.4    0.2      1.8    0.9    0.5    0.4    0.8    0.8    0.5

                  AGE: 17

     DELTA-P                     1.5      0.5   -0.9#  -0.6    1.0     0.2   -0.2     2.2   -0.5#    3.6*   0.2   -0.9*  -1.2#    -0.2   -0.3    0.1   -0.7    1.6   -0.6    0.5
     STD ERR OF DP                        0.6    0.3    0.4    0.6     0.3    0.3     1.2    0.2     1.5    0.7    0.4    0.3      0.7    0.9    0.5    0.4    1.7    0.6    1.3
     STD ERR OF P                0.3      0.7    0.2    0.4    0.8     0.5    0.4     1.3    0.3     1.7    0.7    0.3    0.2      0.7    1.0    0.6    0.3    1.7    0.6    1.4
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Report #: 0C16

NAEP #: C20006-123

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		9	13	17
Age:				
Package-Exercise:		02-21	02-10	05-12
National P-value:				
	0C16	17.35	56.59	77.70

Timing: (in seconds)

0C16	Exercise total:	30	30	30

EXERCISE: 0C16

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

RESPONSE: NO AGE: 9 TEXT: No Response.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.3	-0.0	0.9	-0.8	0.1	1.2*	-1.1*	1.8	-0.4*	1.2	-1.1	-0.8	-0.8	4.0*	0.3	-1.3*	1.1	0.5	-0.9	-0.6
STD ERR OF DP		0.9	1.0	0.7	0.8	0.4	0.4	0.9	0.2	1.6	1.6	0.7	0.7	1.8	1.5	0.5	1.5	1.7	0.8	1.1
STD ERR OF P	0.5	1.1	1.2	0.7	0.9	0.7	0.5	1.1	0.5	1.9	1.5	0.8	0.7	1.9	1.7	0.5	1.7	1.9	0.7	1.2
AGE: 13																				
DELTA-P	2.4	-0.0	1.3	-1.8*	0.7	0.1	-0.1	3.5*	-0.9*	1.2	1.9	-0.4	-1.6*	5.9	1.1	-1.6*	0.4	-0.1	0.9	-1.4*
STD ERR OF DP		0.6	1.0	0.5	0.9	0.4	0.4	1.7	0.3	1.3	1.6	0.5	0.4	3.0	1.2	0.5	0.8	0.9	1.9	0.7
STD ERR OF P	0.5	0.6	1.3	0.3	1.1	0.7	0.5	1.8	0.4	1.4	1.6	0.6	0.5	3.2	1.3	0.3	0.8	0.9	2.2	0.6
AGE: 17																				
DELTA-P	1.2	-0.5	0.1	0.4	-0.1	-0.5	0.4	0.6	-0.2	0.7	-0.2	0.3	-0.7*	0.3	2.2*	-1.2*	-0.5	0.1	1.7	0.5
STD ERR OF DP		0.4	0.4	0.5	0.5	0.3	0.2	0.8	0.2	0.5	0.7	0.5	0.3	0.8	1.1	0.3	0.5	1.0	1.2	0.9
STD ERR OF P	0.3	0.4	0.4	0.7	0.6	0.2	0.5	0.8	0.3	0.4	0.7	0.6	0.4	0.8	1.1	0.0	0.5	1.0	1.4	1.0

RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	17.4	-5.0*	-2.9	3.2	3.7	2.4*	-2.3*	-7.6*	1.7*	-3.5	0.6	-1.0	5.1*	-6.5*	3.7	1.1	-0.3	-5.2*	-0.6	3.1
STD ERR OF DP		1.7	2.0	2.0	2.0	0.8	0.8	1.8	0.4	3.2	4.0	1.5	1.7	2.1	3.9	1.8	3.1	2.6	2.8	2.7
P-VALUE	17.4	12.4	14.5	20.5	21.1	19.7	15.1	9.8	19.0	13.8	18.0	16.4	22.5	10.9	21.1	18.4	17.0	12.1	16.7	20.5
STD ERR OF P	1.2	1.7	2.3	2.3	2.5	1.4	1.4	1.6	1.4	3.3	4.2	1.6	2.2	1.9	4.2	2.3	3.2	2.3	3.0	3.0
AGE: 13																				
DELTA-P	56.6	-5.8	-3.6	5.8*	2.3	3.7*	-3.6*	-25.7*	6.0*	-15.1*	-10.6*	-0.9	12.1*	-31.6*	-0.6	-0.5	-2.6	4.7	9.0	5.9
STD ERR OF DP		3.1	3.1	2.0	2.8	1.0	1.0	2.8	0.8	5.6	3.3	1.6	1.4	3.9	4.6	2.1	4.4	2.9	5.1	3.6
P-VALUE	56.6	50.8	53.0	62.4	58.8	60.3	53.0	30.9	62.6	41.5	46.0	55.7	68.7	25.0	56.0	56.1	54.0	61.3	65.6	62.5
STD ERR OF P	1.6	3.5	3.8	2.0	3.2	2.0	1.7	3.1	1.7	6.0	3.7	2.1	2.0	4.0	5.0	2.5	4.6	3.0	5.5	3.5
AGE: 17																				
DELTA-P	77.7	1.2	-3.3	1.4	0.5	2.1	-1.8	-26.1*	5.8*	-20.1*	-5.7*	-2.7	10.2*	-20.8*	3.8	1.8	0.2	-6.3	0.9	10.0*
STD ERR OF DP		2.3	2.8	2.5	2.5	1.1	1.0	2.9	1.0	3.2	2.6	1.4	1.0	4.3	4.4	2.0	2.8	5.5	3.7	2.4
P-VALUE	77.7	79.9	74.4	79.1	78.2	79.8	75.9	51.6	83.5	57.6	72.0	75.0	87.9	56.9	81.5	79.5	77.9	71.4	78.6	87.7
STD ERR OF P	1.5	2.3	3.3	3.1	2.9	1.8	1.8	3.4	1.2	3.7	2.9	1.7	1.3	5.0	4.5	2.3	2.7	5.8	4.1	2.5

RESPONSE: 39 AGE: 9 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	27.3	-3.4	7.2*	-4.0	0.9	-5.7*	5.6*	-6.1*	1.2	5.0	-3.3	-3.1	-6.3*	-2.4	2.1	-0.6	-1.8	-4.0	2.6	2.3
STD ERR OF DP		2.5	3.2	2.6	2.8	1.2	1.1	2.8	0.6	5.4	4.8	1.9	1.8	4.0	5.7	2.3	3.4	3.9	4.6	4.3
STD ERR OF P	1.6	2.7	3.9	2.9	3.3	1.7	2.3	2.7	1.8	6.1	4.5	2.3	2.1	4.1	6.3	2.4	3.8	3.6	5.2	4.7
AGE: 13																				
DELTA-P	10.6	-1.2	-1.0	0.9	1.1	-1.9*	1.9*	1.4	-0.7*	4.1	0.8	1.5	-3.8*	9.4*	-0.1	0.1	-1.5	-0.8	-4.3*	2.6
STD ERR OF DP		1.4	1.3	1.3	1.5	0.7	0.7	1.8	0.4	3.1	2.5	0.9	0.7	3.7	2.7	1.0	1.9	1.7	1.8	1.9
STD ERR OF P	0.8	1.5	1.5	1.5	1.7	0.9	1.2	2.0	0.8	3.3	2.7	1.2	0.9	3.8	2.9	1.1	2.0	1.8	2.0	2.0
AGE: 17																				
DELTA-P	5.7	-0.9	2.3*	-0.4	-0.9	-0.4	0.3	5.5*	-1.3*	8.0*	2.4	1.1	-3.6*	2.9	-4.1*	-0.0	3.6	0.8	-0.8	-2.7
STD ERR OF DP		0.8	1.1	0.9	1.1	0.6	0.5	1.9	0.3	1.7	1.7	0.9	0.6	2.2	0.9	1.0	1.8	2.2	1.1	1.4
STD ERR OF P	0.6	0.7	1.3	1.1	1.3	0.8	0.8	2.1	0.5	1.8	1.8	1.3	0.4	2.5	0.7	1.1	1.9	2.2	1.2	1.4

Report #: 0C17

NAEP #: C20027-38

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		06-11	03-23
National P-value:			
	0C17	10.30	19.77
Timing: (in seconds)			
0C17	Exercise total:	76	*

*Time not limited by paced tape.

EXERCISE: 0C17

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	SIZE-AND-TYPE OF COMMUNITY EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	1.9	0.7	-0.8	-0.5	0.7	0.4	-0.4	2.7*	-0.6#	1.0	0.1	-0.2	-0.6	1.1	-1.0*	-0.7	1.0	3.1*	-0.1	-0.6
STD ERR OF DP		0.7	0.4	0.5	0.5	0.3	0.3	1.1	0.2	1.0	0.7	0.4	0.4	1.0	0.5	0.4	1.0	1.3	0.9	0.9
STD ERR OF P	0.3	0.8	0.3	0.6	0.5	0.5	0.3	1.1	0.4	1.1	0.8	0.5	0.5	0.9	0.5	0.5	1.1	1.3	1.0	1.0
AGE: Ad																				
DELTA-P	0.8	-0.3	-0.2	-0.5	1.1	0.0	-0.0	3.3	-0.5	0.2	-0.4	0.7	-0.9#	2.8	0.7	-0.3	-0.2	-0.3	-0.4	-0.9#
STD ERR OF DP		0.4	0.4	0.4	0.9	0.4	0.3	2.4	0.3	0.4	0.5	0.6	0.3	2.7	0.9	0.4	0.5	0.6	0.5	0.3
STD ERR OF P	0.3	0.3	0.4	0.2	1.2	0.6	0.3	2.7	0.1	0.4	0.4	0.9	0.0	3.0	[illegible]	0.3	0.4	0.6	0.5	0.0
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	10.3	-4.5#	2.4	1.5	-0.2	2.9#	-2.7#	-8.7#	1.5#	-5.8#	-2.3	-1.7	3.8#	-3.7*	[illegible]	-1.9	0.5	1.0	3.0	5.8
STD ERR OF DP		1.1	1.6	1.4	1.5	0.8	0.8	1.0	0.3	1.3	1.9	1.0	0.8	1.8	[illegible]	1.1	1.6	3.5	1.8	3.4
P-VALUE	10.3	5.8	12.7	11.8	10.1	13.2	7.6	1.6	11.8	4.5	8.0	8.6	14.1	6.6	[illegible]	8.4	10.8	11.3	13.3	16.1
STD ERR OF P	0.8	0.9	1.8	1.7	1.7	1.3	1.0	0.7	0.9	1.4	2.0	1.1	1.4	1.9	1.3	1.1	1.3	3.7	2.0	3.9
AGE: Ad																				
DELTA-P	19.8	-4.5*	3.0*	0.0	0.5	7.9#	-7.4#	-16.9#	3.0#	-7.9#	-3.9	-0.2	12.3#	-9.8#	0.8	0.7	2.5	1.9	-2.7	3.7
STD ERR OF DP		2.0	1.4	1.7	2.2	1.3	1.1	1.4	0.5	1.3	2.2	1.8	2.4	2.0	3.0	1.6	2.9	3.3	3.5	3.0
P-VALUE	19.8	15.3	22.7	19.8	20.3	27.7	12.4	2.8	22.7	11.9	15.9	19.6	32.1	9.9	20.6	20.4	22.3	21.6	17.0	23.5
STD ERR OF P	1.0	2.2	1.4	2.0	2.7	1.8	1.3	1.2	1.2	1.6	2.4	2.1	2.6	1.9	3.1	2.1	2.9	3.5	3.6	3.2
RESPONSE: 03 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	21.1	-0.6	4.7#	-2.0	-1.6	-5.4#	5.0#	6.5*	-1.9#	10.7#	9.4#	-1.8	-4.3#	4.0	2.7	0.9	-7.0#	-3.1	1.6	-0.1
STD ERR OF DP		2.2	1.7	1.5	1.7	1.0	1.0	2.7	0.4	3.6	3.3	1.4	1.0	2.8	3.3	1.3	2.3	5.1	2.4	3.8
STD ERR OF P	1.0	2.5	1.8	1.7	2.1	1.3	1.5	3.0	1.0	3.9	3.3	1.7	1.3	2.8	3.5	1.5	2.4	5.4	2.5	4.1
AGE: Ad																				
DELTA-P	25.2	1.1	-0.5	1.0	-1.6	-13.1#	12.1#	17.1#	-3.1#	8.9#	4.8*	-2.5	-11.4#	11.9#	-2.7	0.5	0.3	-0.4	-0.6	-7.8#
STD ERR OF DP		2.5	2.5	2.2	2.3	1.2	1.2	4.6	0.7	2.4	2.4	1.5	1.6	4.3	4.1	1.6	4.1	4.6	3.6	2.3
STD ERR OF P	1.4	2.6	3.1	2.6	2.6	1.2	2.2	4.9	1.3	3.1	2.7	1.7	1.9	4.9	4.4	2.1	4.2	4.8	3.9	2.3

Report #: UC18

NAEP #: C30010-23

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17
Package-Exercise:		08-20	02-12
National P-value:			
	UC18	47.68	72.59

Timing: (in seconds)

UC18	Exercise total:	31	31

EXERCISE: UC18

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	2.1	-1.8	4.5	-1.7	-1.0	-0.3	0.3	1.0	-0.7	1.3	-0.7	0.4	-1.1**	14.0	-1.8	-1.1	-1.2	-1.2	0.0	-2.1*
STD ERR OF DP		1.0	3.0	1.0	1.0	0.3	0.3	0.8	0.5	1.7	1.2	0.4	0.4	11.3	1.0	1.0	1.2	1.2	1.4	1.0
STD ERR OF P	1.0	0.2	3.9	0.2	0.4	0.9	1.1	1.1	0.6	2.7	0.7	1.3	0.7	12.2	0.2	0.4	0.5	0.4	1.2	0.0
AGE: 17																				
DELTA-P	0.3	0.4	-0.2	-0.3**	0.1	0.1	-0.1	1.1	-0.2*	0.4	-0.2	-0.1	-0.3**	1.2*	0.2	-0.1	-0.3**	-0.1	-0.2	-0.3**
STD ERR OF DP		0.3	0.1	0.1	0.2	0.1	0.1	0.6	0.1	0.5	0.1	0.2	0.1	0.6	0.5	0.1	0.1	0.2	0.1	0.1
STD ERR OF P	0.1	0.4	0.1	0.0	0.2	0.2	0.1	0.6	0.1	0.5	0.1	0.1	0.0	0.7	0.5	0.1	0.0	0.2	0.1	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	47.7	-1.0	-12.5**	4.6	9.0**	-5.0**	5.1**	-22.1**	5.3**	-13.0**	-7.7	-1.1	10.2**	-27.7**	-5.5	0.6	4.3	-1.6	5.1	10.3**
STD ERR OF DP		4.3	2.9	2.6	2.3	1.2	1.1	4.2	1.0	3.6	4.6	1.5	1.5	4.3	4.8	2.2	4.2	4.5	4.4	4.0
P-VALUE	47.7	46.7	35.2	52.3	56.7	42.7	52.8	25.5	53.0	34.7	40.0	46.6	57.9	20.0	42.1	48.3	52.0	46.1	52.8	58.0
STD ERR OF P	1.8	5.5	3.2	2.7	2.1	2.0	2.2	4.4	2.1	3.6	5.3	2.1	2.2	4.5	5.0	2.8	5.1	4.5	4.5	3.9
AGE: 17																				
DELTA-P	72.6	-4.0	-3.3	-0.6	6.6**	-2.5	2.2	-23.9**	5.0**	-19.4**	-5.3*	-1.5	9.6**	-18.7**	0.0	-0.7	6.0*	4.6	2.6	10.4**
STD ERR OF DP		2.6	2.1	2.3	2.2	1.4	1.3	3.4	1.0	6.1	2.6	1.9	1.6	3.4	4.5	1.6	2.6	4.6	3.4	2.5
P-VALUE	72.6	68.6	69.3	72.0	79.2	70.1	74.8	48.7	77.6	53.2	67.3	71.1	82.1	53.9	72.6	71.9	78.6	77.2	75.1	83.0
STD ERR OF P	1.3	2.9	2.3	2.9	2.5	2.2	1.5	3.5	1.5	6.7	2.7	2.1	1.8	3.5	4.7	2.1	2.6	4.6	3.6	2.5
RESPONSE: 03 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	4.9	-1.2	1.0	-0.4	0.6	1.5**	-1.5**	2.0	-0.6*	1.4	0.2	0.9	-2.4**	7.1**	0.9	-0.9	-1.3	-0.7	1.7	-2.8**
STD ERR OF DP		0.8	0.9	1.1	1.2	0.4	0.5	1.5	0.3	2.0	1.3	0.8	0.4	2.5	2.2	0.8	1.4	1.3	1.9	0.9
STD ERR OF P	0.6	0.8	1.1	1.3	1.5	0.9	0.6	1.6	0.7	1.9	1.3	1.0	0.6	2.7	2.2	0.8	1.5	1.3	2.1	0.9
AGE: 17																				
DELTA-P	1.4	1.5*	-0.3	-0.4	-0.4	-0.1	0.1	1.3	-0.1	0.8	1.7*	-0.3	-0.8**	0.5	0.7	-0.1	0.7	-1.0**	-0.3	-0.5
STD ERR OF DP		0.7	0.3	0.3	0.4	0.3	0.2	0.8	0.1	0.9	0.7	0.3	0.3	0.7	1.4	0.3	0.6	0.4	0.5	0.7
STD ERR OF P	0.2	0.8	0.3	0.3	0.4	0.3	0.4	0.9	0.3	1.0	0.8	0.4	0.2	0.7	1.5	0.4	0.7	0.3	0.5	0.8

Report #: 0C19

NAEP #: C50003-234

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		09-09	06-23	05-20
National P-value:				
	0C19	24.58	57.97	57.26

Timing: (in seconds)				
0C19	Exercise total:	38	36	*

*Time not limited by paced tape.

EXERCISE: UC19

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.2	0.2	0.4	-0.4	-0.2	-0.0	0.0	1.5	-0.4*	0.4	-0.4	-0.2	-0.6*	1.2	-1.2#	-0.4	2.3*	0.2	0.3	-1.2#
STD ERR OF DP		0.5	0.7	0.5	0.5	0.3	0.3	1.0	0.2	1.2	0.5	0.3	0.3	0.9	0.3	0.4	1.0	0.7	1.2	0.3
STD ERR OF P	0.3	0.5	0.9	0.5	0.5	0.3	0.5	1.0	0.3	1.2	0.5	0.5	0.3	0.9	0.1	0.3	1.1	0.7	1.4	0.0
AGE: 17																				
DELTA-P	0.8	0.9	0.4	-0.6*	-0.4	-0.2	0.2	3.9*	-0.5*	-0.4	0.2	-0.2	-0.3	0.4	-0.2	-0.2	0.2	-0.8#	0.3	0.3
STD ERR OF DP		0.7	0.4	0.3	0.3	0.3	0.2	1.6	0.2	0.4	0.6	0.4	0.3	0.5	0.4	0.3	0.6	0.2	0.9	0.8
STD ERR OF P	0.2	0.9	0.5	0.2	0.1	0.2	0.4	1.8	0.1	0.3	0.6	0.6	0.3	0.4	0.3	0.3	0.6	0.0	1.0	0.8
AGE: Ad																				
DELTA-P	0.3	0.8	-0.2	-0.3	-0.3	-0.2	0.1	2.2	-0.3	0.5	-0.3	-0.3	-0.3	0.1	0.4	0.2	-0.3	-0.3	-0.3	-0.3
STD ERR OF DP		0.6	0.2	0.2	0.2	0.2	0.2	1.3	0.2	0.5	0.2	0.2	0.2	0.3	0.6	0.3	0.2	0.2	0.2	0.2
STD ERR OF P	0.2	0.7	0.1	0.0	0.0	0.1	0.4	1.5	0.0	0.7	0.0	0.0	0.0	0.3	0.6	0.5	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	24.6	-6.8#	-0.5	-1.9	9.2#	3.0#	-3.2#	-14.8#	2.7#	-9.6*	-11.9#	-2.5	9.6#	-12.7#	-9.7#	-0.2	3.2	-7.7#	3.1	14.9#
STD ERR OF DP		2.7	1.9	2.3	2.1	1.0	1.1	1.6	0.4	3.9	3.3	1.3	1.4	3.5	3.1	2.1	5.0	2.9	2.8	4.0
P-VALUE	24.6	17.8	24.1	22.7	33.8	27.6	21.3	9.8	27.3	15.0	12.7	22.1	34.2	11.9	14.9	24.4	27.7	16.9	27.7	39.5
STD ERR OF P	1.3	3.1	1.9	2.8	2.5	1.8	1.5	1.6	1.5	3.9	2.9	1.4	2.3	3.5	2.9	2.2	5.6	3.0	2.9	4.2
AGE: 17																				
DELTA-P	58.0	-8.3#	-5.3*	5.3#	5.6*	4.9#	-4.5#	-30.8#	5.8#	-15.9#	-20.0#	1.7	10.5#	-21.4#	-2.0	-0.7	-0.3	0.4	4.0	11.0*
STD ERR OF DP		2.7	2.3	1.9	2.8	1.4	1.4	3.6	0.9	4.4	3.1	1.7	1.3	5.8	3.2	2.0	4.0	5.1	3.6	4.5
P-VALUE	58.0	49.6	52.7	63.3	63.5	62.9	53.4	27.2	63.8	42.1	38.0	59.6	68.4	36.6	56.0	57.3	57.7	58.4	62.0	69.0
STD ERR OF P	1.4	3.0	2.5	2.0	3.5	1.4	2.5	3.9	1.5	4.4	3.8	2.3	1.9	6.1	3.0	2.3	4.2	5.3	3.8	5.1
AGE: Ad																				
DELTA-P	57.3	-6.9#	0.4	-0.2	5.6*	10.7#	-10.0#	-32.4#	4.7#	-14.7#	-9.7#	4.4*	18.4#	-18.1#	-12.4#	-0.4	-0.5	2.7	-0.0	20.4#
STD ERR OF DP		2.6	2.7	2.0	2.7	1.4	1.3	2.8	0.8	2.3	2.8	1.9	1.9	4.1	3.5	1.7	4.2	4.6	4.0	2.9
P-VALUE	57.3	50.4	57.6	57.1	62.9	68.0	47.3	24.8	61.9	42.6	47.6	61.7	75.7	39.2	44.9	56.8	56.8	59.9	57.2	77.7
STD ERR OF P	1.4	2.8	3.2	2.0	3.3	2.0	1.9	2.8	1.3	2.6	3.2	2.4	2.0	4.1	3.9	2.2	4.2	5.0	4.6	2.7
RESPONSE: 19 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	4.0	1.3	0.5	-1.1	-0.6	-0.2	0.2	3.0*	-0.4	3.7	4.4	-1.6#	-0.7	1.1	-0.9	-0.4	3.4#	0.2	-0.1	-2.2#
STD ERR OF DP		0.8	0.8	0.6	0.7	0.4	0.4	1.7	0.3	2.0	2.4	0.5	0.5	1.7	1.4	0.6	1.2	1.2	1.0	0.8
STD ERR OF P	0.4	1.0	0.9	0.6	0.8	0.5	0.6	1.8	0.5	2.0	2.6	0.6	0.6	1.7	1.5	0.7	1.3	1.3	1.1	0.9
AGE: 17																				
DELTA-P	3.3	0.6	0.3	-1.2#	0.6	-1.1#	1.0#	5.6*	-1.1#	3.8#	1.6	-1.3#	-1.4#	3.0	-1.7*	0.3	1.5	-0.1	-0.4	-2.1
STD ERR OF DP		0.9	0.5	0.4	0.6	0.4	0.4	2.3	0.3	1.3	1.6	0.5	0.5	2.0	0.7	0.6	1.3	1.3	1.0	1.1
STD ERR OF P	0.3	1.1	0.5	0.4	0.7	0.4	0.6	2.5	0.3	1.3	1.7	0.5	0.5	2.0	0.7	0.6	1.4	1.3	1.1	1.1
AGE: Ad																				
DELTA-P	3.8	2.3	-0.1	-1.3	-0.4	-1.5#	1.4#	9.6#	-1.8#	4.6#	0.4	-2.1#	-2.7#	7.7#	-0.6	0.2	0.0	-1.4	-2.1*	-2.9#
STD ERR OF DP		1.6	1.1	0.8	0.9	0.5	0.5	2.4	0.5	1.2	0.9	0.7	0.6	2.6	1.2	0.7	1.3	1.3	1.0	1.0
STD ERR OF P	0.6	1.9	1.3	0.8	0.9	0.7	0.9	2.7	0.4	1.6	1.1	0.6	0.5	2.7	1.2	1.1	1.5	1.3	0.9	0.9

Report #: UC20

NAEP #: C50014-234

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		04-30	02-23	05-08
National P-value:				
	UC20	28.64	60.86	57.79

Timing: (in seconds)

		13	17	Adult
UC20	Exercise total:	49	49	*

*Time not limited by paced tape.

EXERCISE: UC20

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	3.3	-1.6	4.7	-1.1	-1.2	0.7	-0.8	2.9	-1.1	4.8	-1.2	-0.5	-1.6	12.4	-0.9	-2.4	-1.2	-1.4	2.2	-2.7
STD ERR OF DP		1.5	3.9	1.4	1.4	0.4	0.5	2.0	0.6	2.6	1.6	0.8	1.1	10.2	1.6	1.4	1.6	1.5	3.5	1.4
STD ERR OF P	1.4	0.7	5.2	0.7	0.5	1.7	1.0	2.6	0.9	3.6	1.1	1.4	1.3	11.3	1.1	0.5	1.0	0.9	4.3	0.5
AGE: 17																				
DELTA-P	2.7	2.5	-1.9*	-0.7	0.4	0.4	-0.4	5.4#	-1.0#	1.6	1.1	-0.5	-1.6#	1.2	1.4	-1.2	-1.7	16.8*	-2.2#	-2.7#
STD ERR OF DP		2.3	0.8	1.0	1.0	0.6	0.5	1.8	0.3	2.1	2.1	0.6	0.4	1.4	3.0	0.9	1.0	7.6	0.8	0.7
STD ERR OF P	0.7	2.8	0.5	1.1	1.0	1.2	0.6	2.3	0.6	2.3	2.6	0.6	0.5	1.1	3.2	0.9	0.7	8.1	0.4	0.0
AGE: Ad																				
DELTA-P	0.8	1.1	0.3	-0.7	-0.5	0.4	-0.4	0.1	-0.1	1.0	-0.5	-0.3	-0.7	-0.8*	6.2	-0.5	0.2	-0.8*	-0.8*	-0.8*
STD ERR OF DP		1.3	0.6	0.4	0.5	0.5	0.4	[illegible]	0.1	0.8	0.4	0.4	0.4	0.4	3.8	0.4	0.7	0.4	0.4	0.4
STD ERR OF P	0.4	1.6	0.7	0.1	0.3	0.8	0.2	0.6	0.4	1.2	0.3	0.4	0.1	0.0	4.1	0.2	0.7	0.0	0.0	0.0
RESPONSE: 10* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	28.6	-1.0	-5.3#	1.2	4.7#	3.1#	-3.3#	-20.4#	4.9#	-14.4#	-10.6#	-1.3	12.4#	-16.3#	-6.5*	1.7	3.3	-3.6	2.7	15.8#
STD ERR OF DP		2.1	1.7	1.8	1.6	1.2	1.2	1.7	0.7	2.7	2.6	1.3	1.3	2.7	3.2	1.7	2.6	3.0	3.8	3.5
P-VALUE	28.6	27.6	23.4	29.9	33.4	31.7	25.3	8.2	33.6	14.2	18.0	27.3	41.1	12.4	22.2	30.3	32.0	25.0	31.4	44.5
STD ERR OF P	1.1	2.4	2.0	2.2	1.7	1.6	1.6	1.6	1.2	2.5	3.1	1.7	1.6	2.5	3.4	1.9	2.9	2.9	4.1	3.6
AGE: 17																				
DELTA-P	60.9	-9.1#	-2.4	-0.5	9.7#	3.2*	-2.8*	-31.8#	7.1#	-21.1#	-11.8#	-1.3	12.8#	-17.3#	-8.3	-0.2	5.0	-15.7*	6.2	20.0#
STD ERR OF DP		3.4	2.5	3.4	2.8	1.5	1.3	2.7	1.0	5.0	3.4	1.9	1.6	4.6	5.3	2.3	4.1	7.8	4.5	4.3
P-VALUE	60.9	51.8	58.5	60.4	70.6	64.1	58.1	29.0	68.0	39.7	49.0	59.6	73.3	43.6	52.5	60.7	65.9	45.1	67.1	80.8
STD ERR OF P	1.8	3.7	2.3	4.4	3.2	2.5	2.2	3.1	1.8	5.5	3.8	2.6	2.0	5.1	5.4	2.6	3.9	8.3	4.8	4.6
AGE: Ad																				
DELTA-P	57.8	-4.3	2.4	1.4	-0.4	9.5#	-8.8#	-34.1#	5.0#	-14.2#	-12.4#	6.4#	16.4#	-19.2#	-3.8	-0.9	-1.1	5.4	-7.2#	22.0#
STD ERR OF DP		2.5	2.8	2.1	2.6	1.1	1.1	3.5	0.7	2.3	2.9	1.7	1.8	3.6	6.1	2.0	5.1	3.9	2.8	2.9
P-VALUE	57.8	53.5	60.2	59.2	57.4	67.3	49.0	23.7	62.8	43.6	45.4	64.2	74.2	38.6	54.0	56.9	56.7	63.2	50.6	79.8
STD ERR OF P	1.4	2.6	3.4	2.2	3.2	1.7	1.8	3.2	1.5	2.8	3.1	2.2	2.2	3.6	6.4	2.2	5.4	4.3	3.2	3.0
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	10.5	0.8	1.7	-1.0	-1.3	-1.0	1.0	2.5	-0.7*	4.0	3.2	-0.9	-3.5#	1.2	0.7	-0.3	-0.9	4.0	-0.7	-4.0
STD ERR OF DP		1.5	1.3	1.2	1.2	0.7	0.7	1.7	0.3	2.7	2.6	1.0	0.8	2.1	2.2	1.2	1.7	2.3	1.7	2.1
STD ERR OF P	0.7	1.7	1.6	1.4	1.3	1.1	1.0	1.8	0.8	2.9	2.7	1.2	1.0	2.2	2.2	1.3	1.8	2.5	1.9	2.3
AGE: 17																				
DELTA-P	5.8	3.5#	-0.7	-1.5	-0.6	-1.7#	1.5#	4.6#	-1.0#	6.4	0.4	-1.0	-1.5*	2.5	4.1	-0.9	1.9	1.5	-2.4*	-1.6
STD ERR OF DP		1.1	0.8	1.1	1.0	0.6	0.5	1.8	0.4	3.6	1.4	0.7	0.6	1.8	3.8	0.7	1.2	2.5	1.0	1.5
STD ERR OF P	0.6	1.2	0.8	1.4	1.2	0.8	0.8	2.0	0.6	3.9	1.4	0.7	0.7	1.9	4.0	0.8	1.3	2.6	1.0	1.6
AGE: Ad																				
DELTA-P	14.5	1.3	-5.1#	1.8	2.1	-5.5#	5.2#	11.6#	-1.4#	7.0#	3.5	-2.6*	-7.5#	13.5#	-2.3	0.6	0.6	-3.8	-0.5	-7.4#
STD ERR OF DP		2.2	1.6	2.0	1.8	0.7	0.7	3.2	0.5	1.5	1.8	1.2	1.4	3.5	2.8	1.5	2.7	2.9	2.2	1.7
STD ERR OF P	1.1	2.5	1.7	2.5	2.0	1.1	1.5	3.4	1.2	2.0	2.2	1.5	1.4	3.8	2.9	2.1	2.7	2.8	2.3	1.7

Report #: UC21

NAEP #: C50032-34

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		05-20	03-18
National P-value:			
	UC21	27.28	54.06

Timing: (in seconds)			
UC21	Exercise total:	46	*

*Time not limited by paced tape.

EXERCISE: UC21

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	2.4	-0.7	0.3	-0.4	0.8	0.6*	-0.5*	1.3	-0.5#	0.5	-1.5#	0.3	-1.1#	4.1#	-2.1#	-1.4#	1.3	2.2	-1.3	0.7
STD ERR OF DP		0.5	1.1	0.6	0.7	0.3	0.2	1.2	0.2	1.2	0.5	0.5	0.3	1.4	0.5	0.4	1.9	1.7	0.7	1.6
STD ERR OF P	0.4	0.5	1.4	0.5	0.7	0.6	0.4	1.2	0.5	1.2	0.7	0.7	0.4	1.4	0.2	0.3	2.2	1.8	0.6	1.7
AGE: Ad																				
DELTA-P	0.4	-0.2	-0.4	-0.4	1.1	0.4	-0.3	2.8	-0.3	-0.1	-0.4	0.5	-0.4	2.6	-0.4	-0.1	-0.4	-0.4	-0.4	-0.4
STD ERR OF DP		0.4	0.3	0.3	0.9	0.3	0.3	2.4	0.3	0.4	0.3	0.6	0.3	2.6	0.3	0.3	0.3	0.3	0.3	0.3
STD ERR OF P	0.3	0.2	0.0	0.0	1.2	0.6	0.1	2.7	0.1	0.3	0.0	0.9	0.0	2.9	0.0	0.3	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	27.3	-2.9	-2.4	3.1	1.1	7.0#	-6.1#	-22.8#	5.1#	-18.9#	-10.7#	-1.8	9.8#	-14.4#	4.2	2.0	0.0	-8.4*	2.9	4.1
STD ERR OF DP		3.1	2.6	2.8	2.0	1.3	1.1	1.5	0.7	2.0	2.5	1.7	1.2	3.6	6.0	1.8	3.3	3.9	3.5	3.7
P-VALUE	27.3	24.4	24.9	30.4	28.4	34.3	21.2	4.5	32.3	8.3	16.6	25.5	37.1	12.9	31.5	29.3	27.3	18.9	30.2	31.4
STD ERR OF P	1.5	3.5	2.8	3.6	1.9	2.2	1.6	0.8	1.6	1.8	2.3	2.7	1.8	4.0	6.6	2.1	3.5	3.8	3.7	4.0
AGE: Ad																				
DELTA-P	54.1	-1.0	0.5	-0.6	1.0	5.6#	-5.2#	-39.2#	6.4#	-11.1#	-10.6#	4.5*	16.6#	-27.8#	-2.0	0.9	2.8	-0.7	1.2	15.3#
STD ERR OF DP		3.2	2.9	1.9	2.8	1.6	1.5	3.1	0.9	2.6	2.7	2.0	2.0	3.5	4.4	1.9	4.8	4.7	3.9	3.8
P-VALUE	54.1	53.1	54.6	53.5	55.0	59.6	48.9	14.9	60.5	42.9	43.5	58.6	70.7	26.3	52.1	54.9	56.9	53.4	55.3	69.3
STD ERR OF P	1.5	3.7	3.6	1.6	3.2	2.1	2.2	3.1	1.4	3.1	2.9	2.4	2.3	3.5	4.5	2.4	5.1	4.6	4.1	4.2
RESPONSE: 09 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	14.7	0.5	5.5#	-2.5	-2.8	-4.0#	3.4#	6.5#	-2.0#	13.3#	2.8	0.9	-5.5#	8.1*	-6.0#	0.4	4.5	-2.7	-0.4	-5.9#
STD ERR OF DP		1.7	2.2	1.5	1.6	0.8	0.7	2.6	0.6	3.3	2.2	1.3	1.0	3.6	2.3	1.4	3.7	3.0	1.7	2.1
STD ERR OF P	1.1	1.7	2.7	1.7	1.7	1.2	1.3	2.8	1.0	3.6	2.3	1.7	1.0	3.9	2.4	1.5	4.2	2.9	1.7	1.9
AGE: Ad																				
DELTA-P	9.3	4.3	0.3	-2.3	-1.3	-4.3#	4.0#	19.6#	-3.2#	6.2#	2.6	-5.1#	-4.6#	12.3#	-0.8	0.3	-0.4	0.5	-2.3	-7.0#
STD ERR OF DP		2.3	1.6	1.1	1.2	0.8	0.8	3.9	0.6	2.0	1.9	1.0	1.1	4.2	2.6	1.0	2.5	2.4	2.1	1.5
STD ERR OF P	0.9	2.8	2.0	1.1	1.2	0.9	1.4	4.3	0.7	2.5	2.0	0.8	1.3	4.5	2.8	1.3	2.7	2.2	2.3	1.6

Report #: UC22

NAEP #: C70009-1

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		06-23
National P-value:		
	UC22	7.80

Timing: (in seconds)
UC22 Exercise total: 20

EXERCISE: UC22

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	4.5	0.6	0.2	-0.4	-0.3	1.1*	-1.1*	3.7#	-0.8#	1.9	-1.0	-1.9#	-1.3	4.8*	-3.1#	-1.4*	0.5	1.6	-1.7	2.0
STD ERR OF DP		1.1	0.9	1.0	0.9	0.5	0.5	1.4	0.3	2.0	1.9	0.7	0.8	2.0	0.8	0.7	1.6	1.3	0.9	2.1
STD ERR OF P	0.6	1.4	0.9	1.2	0.9	0.9	0.6	1.7	0.6	2.0	1.8	0.8	0.9	2.2	0.6	0.6	1.7	1.5	0.9	2.3
RESPONSE: 10* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	7.8	-2.1	-2.4	-0.4	4.3*	2.0#	-2.0#	-7.1#	1.6#	-4.0*	-2.2	2.[illegible]	2.9#	-6.4#	-2.8	3.4	3.1	-3.5	-1.1	-0.5
STD ERR OF DP		1.6	1.6	1.9	1.9	0.7	0.7	1.2	0.4	1.8	2.6	1.[illegible]	1.2	1.2	1.9	2.3	2.0	2.4	2.8	2.2
P-VALUE	7.8	5.7	5.4	7.4	12.1	9.8	5.8	0.7	9.4	3.8	5.6	10.0	10.7	1.4	5.0	11.2	10.9	4.3	6.7	7.3
STD ERR OF P	1.1	1.6	1.4	2.3	2.4	1.4	1.3	0.4	1.4	1.5	2.5	2.6	1.5	0.7	1.7	3.2	2.0	2.3	2.9	2.1
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	16.1	-1.7	3.7*	-1.8	0.6	-4.5#	4.6#	-3.2	0.1	-7.9#	-2.6	0.3	-3.2*	0.1	2.9	-0.4	-3.7	2.0	-0.2	1.1
STD ERR OF DP		2.0	1.8	1.9	2.9	0.9	0.9	1.9	0.6	2.6	3.4	2.2	1.5	3.6	5.7	1.9	2.1	4.2	3.3	3.2
STD ERR OF P	1.3	2.2	1.5	2.1	3.8	1.3	1.8	2.1	1.5	2.3	3.4	2.6	1.6	3.7	6.4	2.3	2.2	4.5	3.2	3.2

Report #: UC23

NAEP #: A22010-2

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13
Package-Exercise:		06-05
National P-value:		
	UC23	22.02

Timing: (in seconds)
UC23 Exercise total: 88

EXERCISE: UC23

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.6	0.1	0.1	-0.1	-0.1	0.1	-0.1	2.2*	-0.4*	0.0	0.2	-0.4*	-0.2	2.3	-0.6*	-0.4	0.4	0.6	-0.6*	-0.2
STD ERR OF DP		0.3	0.3	0.3	0.2	0.1	0.1	0.7	0.1	0.4	0.5	0.2	0.1	1.2	0.2	0.2	0.5	0.6	0.2	0.3
STD ERR OF P	0.2	0.4	0.4	0.3	0.2	0.3	0.2	0.8	0.1	0.4	0.6	0.1	0.2	1.3	0.0	0.2	0.7	0.6	0.0	0.3
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	22.0	-3.0	-2.9	-0.7	6.7*	0.5	-0.4	-16.8*	2.9*	-6.8	-8.1*	-4.4*	11.7*	-15.2*	-6.3	0.6	-2.6	-6.9	2.0	16.8*
STD ERR OF DP		2.7	2.3	2.7	3.0	1.2	1.1	2.0	0.4	5.0	2.3	1.7	1.7	2.7	3.7	2.0	3.4	4.2	2.8	4.5
P-VALUE	22.0	19.0	19.1	21.4	28.7	22.5	21.6	5.2	24.9	15.2	13.9	17.6	33.8	6.8	15.7	22.6	19.4	15.2	24.0	38.8
STD ERR OF P	1.5	2.8	2.5	3.4	3.5	2.0	1.8	1.6	1.7	5.5	2.6	2.0	2.5	2.7	3.8	2.4	3.8	4.4	2.8	5.0
RESPONSE: 03 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	6.8	-0.5	2.7*	-1.5	-0.6	-0.7	0.7	-1.6	0.1	4.9	-0.3	-0.6	-1.5*	0.8	2.3	-0.5	-1.1	-2.4	2.4	-0.8
STD ERR OF DP		1.2	1.3	1.0	1.0	0.5	0.5	1.5	0.2	2.8	1.6	1.0	0.7	1.6	2.2	0.9	1.5	1.4	2.0	1.7
STD ERR OF P	0.6	1.4	1.6	1.1	1.1	0.7	0.9	1.5	0.7	2.9	1.7	1.2	0.9	1.6	2.3	1.1	1.6	1.2	2.1	1.9

Report #: UC24

NAEP #: B13002-123

Content Area: C. ARITHMETIC COMPUTATION

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17
Package-Exercise:		07-31	06-21	01-09
National P-value:				
	UC24	14.30	62.50	84.23

Timing: (in seconds)				
UC24	Exercise total:	24	24	24

EXERCISE: UC24

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.2	0.0	0.6	-0.8	0.3	0.3	-0.3	-0.3	-0.5*	0.5	1.9	0.2	-1.2#	-0.3	-1.1	0.3	-0.8	2.5	-0.3	-1.0
STD ERR OF DP		0.8	0.7	0.5	0.7	0.2	0.2	0.5	0.2	1.4	2.2	0.7	0.4	0.8	0.8	0.5	0.7	1.5	1.0	0.7
STD ERR OF P	0.4	1.0	0.8	0.4	0.9	0.5	0.4	0.6	0.3	1.3	2.3	0.7	0.4	0.7	0.7	0.5	0.6	1.7	1.2	0.7
AGE: 13																				
DELTA-P	0.8	0.2	0.6	-0.2	-0.6#	-0.1	0.1	0.5	-0.3*	-0.6*	0.3	0.2	-0.4	1.9*	0.0	-0.2	0.4	0.2	-0.9#	-0.4
STD ERR OF DP		0.4	0.4	0.3	0.2	0.2	0.2	0.4	0.1	0.3	0.6	0.3	0.2	0.9	0.6	0.3	0.6	0.5	0.2	0.3
STD ERR OF P	0.2	0.4	0.5	0.3	0.2	0.2	0.3	0.4	0.2	0.2	0.6	0.4	0.2	1.0	0.7	0.3	0.6	0.6	0.0	0.3
AGE: 17																				
DELTA-P	0.3	-0.0	0.3	-0.3#	0.0	0.1	-0.1	0.8	-0.2*	0.5	-0.2	-0.2	-0.2*	2.0	-0.1	-0.3#	-0.1	0.1	-0.1	-0.3#
STD ERR OF DP		0.2	0.2	0.1	0.2	0.1	0.1	0.6	0.1	0.6	0.1	0.1	0.1	1.0	0.2	0.1	0.2	0.4	0.3	0.1
STD ERR OF P	0.1	0.2	0.2	0.0	0.3	0.1	0.2	0.6	0.0	0.6	0.1	0.1	0.1	1.1	0.2	0.0	0.2	0.4	0.3	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	14.3	-6.7#	-0.0	-2.4	8.8#	3.5#	-3.5#	-4.9*	1.0*	-0.8	-5.7*	-2.4	6.3#	-0.9	-2.6	-2.3	2.2	-0.1	0.3	5.6
STD ERR OF DP		1.3	1.8	1.5	1.9	0.9	1.0	2.3	0.4	3.1	2.8	1.3	1.1	4.2	4.6	1.4	2.4	2.8	2.4	2.8
P-VALUE	14.3	7.6	14.3	12.0	23.1	17.9	10.8	9.5	15.3	13.5	8.6	11.9	20.6	13.5	11.8	12.0	16.6	14.3	14.7	19.9
STD ERR OF P	1.0	1.2	2.0	1.9	2.2	1.4	1.2	2.4	1.1	3.3	2.8	1.6	1.5	4.4	4.6	1.7	2.6	2.9	2.7	2.9
AGE: 13																				
DELTA-P	62.5	-9.3*	-2.2	3.3	7.0*	2.6*	-2.4*	-32.6#	5.2#	-4.8	-14.0#	-1.5	11.9#	-25.2#	-6.5	0.6	-3.4	-7.6	8.7	17.3#
STD ERR OF DP		4.1	3.4	3.9	2.9	1.2	1.1	3.1	0.7	4.4	4.0	1.4	1.6	4.5	10.9	2.3	4.9	4.8	4.9	3.2
P-VALUE	62.5	53.2	60.4	65.8	69.5	65.1	60.1	30.0	67.7	57.7	48.5	61.0	74.3	37.3	56.0	63.1	59.1	54.9	71.2	79.8
STD ERR OF P	2.1	4.6	3.8	5.0	2.7	2.1	2.7	3.3	2.2	5.1	4.5	2.5	2.0	4.6	11.9	2.5	5.5	4.5	5.0	2.8
AGE: 17																				
DELTA-P	84.2	-5.4*	-0.2	5.3#	-0.7	2.7#	-2.5#	-25.6#	4.9#	-17.5#	-14.5#	1.4	9.0#	-18.5#	-14.9#	0.9	6.2#	-4.4	3.0	10.7#
STD ERR OF DP		2.6	2.4	1.6	2.2	0.9	0.9	3.8	0.8	4.2	2.8	1.4	1.1	5.1	5.2	1.6	2.0	3.2	2.9	1.7
P-VALUE	84.2	78.8	84.1	89.6	83.5	86.9	81.7	58.6	89.1	66.8	69.7	85.6	93.3	65.8	69.4	85.1	90.4	79.9	87.2	95.0
STD ERR OF P	1.3	2.9	2.9	1.5	2.6	1.6	1.4	4.0	1.2	4.3	3.3	1.5	0.9	5.1	5.5	2.1	1.8	3.2	3.2	1.5
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	32.5	-3.9	1.0	4.7	-2.4	-6.9#	6.9#	-9.6#	2.7#	-3.9	-8.0	-4.3*	-1.2	-9.4*	-3.2	2.3	-0.1	-4.0	4.1	0.5
STD ERR OF DP		3.4	2.8	2.4	2.9	1.2	1.2	2.7	0.6	4.2	4.3	2.1	1.6	4.0	4.3	2.1	4.9	3.9	3.5	4.9
STD ERR OF P	1.6	4.1	3.1	2.6	3.4	1.5	2.4	2.5	1.9	4.3	4.6	2.4	2.3	4.0	4.8	3.0	5.6	4.0	3.5	4.8
AGE: 13																				
DELTA-P	9.9	1.1	0.6	0.8	-2.6	-0.7	0.6	4.0*	-0.9*	3.5	2.5	0.1	-3.4#	6.1	-0.5	1.1	1.3	-3.5	[illegible]	-3.7
STD ERR OF DP		1.8	1.5	1.8	1.3	1.0	0.9	2.1	0.4	3.7	2.8	0.9	0.9	3.4	4.0	1.3	2.5	1.8	1.8	1.9
STD ERR OF P	0.9	2.0	1.6	2.3	1.2	1.1	1.5	2.4	1.0	4.1	2.9	1.3	0.9	3.4	4.4	1.6	2.7	1.7	1.8	1.9
AGE: 17																				
DELTA-P	3.5	-0.1	-0.0	-0.7	0.8	-0.8	0.7	3.2	-1.2#	5.9#	2.4	-1.2*	-1.9#	4.2*	1.5	-0.9	-0.9	2.2	1.0	-2.4*
STD ERR OF DP		1.0	1.1	0.7	1.0	0.5	0.5	1.6	0.4	2.4	1.7	0.6	0.5	1.9	2.4	0.6	1.0	2.7	2.0	1.2
STD ERR OF P	0.6	1.1	1.4	0.7	1.2	0.7	0.8	1.7	0.4	2.5	1.8	0.6	0.6	2.1	2.5	0.6	1.0	2.9	2.3	1.1

Report #: UC25

NAEP #: E13007-234

Content Area: C. ARITHMETIC COMPUTATION

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		02-04	06-20	03-15
National P-value:				
	UC25	10.21	26.19	39.19
Timing: (in seconds)				
UC25	Exercise total:	89	89	*

*Time not limited by paced tape.

EXERCISE: 9C25

This unreleased exercise dealt with ARITHMETIC COMPUTATION at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	2.9	-0.7	2.6	-1.1	-0.7	-0.3	0.3	1.3	-0.5*	-0.7	1.0	0.4	-0.8	2.8	-0.1	-1.3	-1.4	-0.2	3.4	-0.7
STD ERR OF DP		0.8	1.7	0.8	0.8	0.6	0.6	1.2	0.2	1.2	1.8	0.9	0.5	2.1	1.2	0.7	1.0	1.0	3.2	1.2
STD ERR OF P	0.6	0.8	2.2	0.7	0.7	0.6	1.1	1.1	0.7	1.1	1.8	1.3	0.8	2.0	1.1	0.7	0.6	0.9	3.7	1.2
AGE: 17																				
DELTA-P	1.9	0.9	-1.0*	-0.5	0.7	-0.5	0.4	3.1*	-0.5#	-0.4	-0.6	0.2	-0.7*	1.7	-1.2	-0.7	0.7	3.5#	-0.5	-0.3
STD ERR OF DP		0.8	0.4	0.4	0.5	0.3	0.3	1.3	0.2	0.7	0.7	0.5	0.4	1.1	0.7	0.4	1.1	1.3	0.9	0.9
STD ERR OF P	0.3	1.0	0.4	0.4	0.6	0.3	0.5	1.3	0.3	0.7	0.7	0.7	0.4	1.2	0.6	0.3	1.1	1.4	1.0	1.0
AGE: Ad																				
DELTA-P	0.7	-0.3	-0.2	-0.6	1.2	0.2	-0.1	3.4	-0.4	0.4	-0.3	0.3	-0.7*	2.3	0.5	-0.1	-0.2	-0.1	-0.7*	-0.7*
STD ERR OF DP		0.4	0.4	0.3	1.0	0.3	0.3	2.4	0.3	0.5	0.5	0.7	0.3	2.6	0.8	0.4	0.4	0.6	0.3	0.3
STD ERR OF P	0.3	0.3	0.3	0.1	1.3	0.6	0.2	2.7	0.2	0.6	0.4	0.9	0.0	2.9	0.8	0.4	0.3	0.6	0.0	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	10.2	-0.5	0.4	1.3	-1.4	2.4#	-2.4#	-0.1	0.5	-3.0	-3.9#	-0.3	2.2#	-5.3#	-2.3	-0.6	-2.5	3.3	0.6	5.1
STD ERR OF DP		1.5	1.6	1.4	1.6	0.8	0.8	1.8	0.3	2.2	1.5	0.8	0.9	1.4	2.1	1.3	1.9	2.5	2.0	3.3
P-VALUE	10.2	9.7	10.6	11.5	8.8	12.6	7.9	10.1	10.7	7.2	6.3	9.9	12.4	4.9	8.0	9.7	7.8	13.5	10.8	15.3
STD ERR OF P	0.9	1.7	1.9	1.6	1.9	1.5	0.9	1.9	1.0	2.4	1.5	1.2	1.3	1.2	2.2	1.5	2.1	2.6	2.2	3.5
AGE: 17																				
DELTA-P	26.2	-8.1#	2.7	1.4	2.5	6.0#	-5.5#	-15.1#	2.7#	-8.5#	-12.9#	-1.5	7.7#	-8.1#	1.5	-2.3	0.2	-3.9	1.0	10.8
STD ERR OF DP		1.8	1.9	2.1	3.0	1.4	1.4	2.4	0.5	2.4	2.3	1.3	0.9	2.8	4.7	1.8	2.5	4.7	2.7	5.9
P-VALUE	26.2	18.1	28.9	27.6	28.7	32.2	20.7	11.1	28.9	17.7	13.3	24.7	33.9	18.1	27.7	23.9	26.4	22.3	27.2	36.9
STD ERR OF P	1.4	1.6	1.9	2.5	3.9	1.6	2.2	2.3	1.5	2.4	2.3	1.9	1.7	2.8	4.9	1.9	2.5	4.7	2.8	6.7
AGE: Ad																				
DELTA-P	39.2	-4.1	2.1	-0.8	2.2	13.0#	-12.1#	-28.2#	4.1#	-11.7#	-3.5	0.3	15.9#	-16.8#	4.0	-1.8	-3.6	1.2	2.8	14.2#
STD ERR OF DP		3.3	2.4	2.7	2.2	1.1	1.1	3.7	0.6	2.3	2.9	2.1	2.4	2.8	5.2	1.9	3.8	4.6	3.4	3.5
P-VALUE	39.2	35.1	41.2	38.4	41.4	52.2	27.1	11.0	43.3	27.5	35.7	39.5	55.0	22.3	43.2	37.4	35.6	40.8	42.0	53.4
STD ERR OF P	1.5	3.7	2.8	3.3	2.2	1.9	1.6	3.4	1.7	2.7	3.0	2.6	2.7	2.8	5.4	2.6	4.1	4.7	3.6	3.8
RESPONSE: 03 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	21.2	3.1	-3.0	0.3	-0.1	-4.7#	4.6#	8.4#	-1.8#	10.4#	4.0	-2.1	-3.6#	17.4#	-1.9	0.9	-1.7	-1.0	-1.6	-5.8
STD ERR OF DP		2.2	2.2	1.5	1.9	1.1	1.1	2.6	0.6	4.1	3.2	1.5	1.3	4.6	2.8	1.8	2.5	2.1	3.5	3.2
STD ERR OF P	1.1	2.6	2.6	1.5	2.1	1.2	1.8	2.8	1.3	4.2	3.6	1.5	1.8	4.6	2.7	2.3	2.3	2.2	3.9	3.3
AGE: 17																				
DELTA-P	14.7	7.6#	0.6	-3.4#	-2.9	-5.3#	4.9#	16.1#	-2.6#	9.2*	6.3#	-0.8	-4.6#	12.3#	-0.6	-1.2	-1.4	0.6	1.4	-1.5*
STD ERR OF DP		2.2	1.5	1.3	1.5	0.9	0.8	2.3	0.4	4.3	2.3	1.3	0.9	3.6	4.2	1.3	2.2	2.9	2.7	2.2
STD ERR OF P	1.0	2.6	1.5	1.3	1.7	0.9	1.5	2.6	0.9	4.7	2.3	1.3	1.7	3.8	4.5	1.3	2.2	3.1	3.0	2.4
AGE: Ad																				
DELTA-P	19.8	5.8	-1.5	-0.8	-2.3	-11.0#	10.2#	21.3#	-3.2#	6.1#	4.8*	-3.3#	-8.9#	13.7#	-4.1	0.9	2.5	-1.6	-5.0*	-6.6#
STD ERR OF DP		2.9	2.0	1.5	1.4	0.9	1.0	4.6	0.7	2.0	2.4	1.3	1.5	4.4	3.3	1.3	3.2	4.6	2.3	2.5
STD ERR OF P	1.1	3.5	2.5	1.5	1.3	1.1	1.6	5.0	0.9	2.5	2.6	1.7	1.2	4.7	3.6	1.7	3.4	4.6	2.4	2.5

Report #: UD01

NAEP #: D20005-1

Content Area: D. SETS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 05-04
National P-value:
UD01 10.89

Timing: (in seconds)
UD01 Exercise total: 16

EXERCISE: UD01

This unreleased exercise dealt with SETS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	7.0	-0.1	1.2	-0.1	-1.1	1.8#	-1.8#	2.1	-1.5*	2.3	-0.2	-1.8	-2.6#	0.5	9.5	-1.7	-1.2	1.9	-2.8	-0.8
STD ERR OF DP		1.1	1.8	1.5	1.1	0.5	0.5	1.4	0.6	2.5	2.3	1.1	0.6	2.4	6.0	1.1	1.6	1.7	1.9	1.6
STD ERR OF P	0.8	1.1	2.3	1.8	1.1	1.1	0.8	1.5	0.7	2.9	2.3	1.1	0.7	2.5	6.5	1.0	1.5	1.7	1.8	1.6
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	10.9	-3.3	2.9	3.2	-3.0	-1.0	1.0	-7.4#	2.2#	-0.7	-7.3#	-0.2	3.2#	-8.5#	0.7	-1.6	2.6	-0.5	-1.5	8.5
STD ERR OF DP		1.7	1.7	2.3	1.9	0.9	0.9	1.4	0.4	3.3	2.0	1.3	1.1	1.4	4.2	1.7	4.9	2.6	2.5	4.6
P-VALUE	10.9	7.6	13.8	14.0	7.9	9.9	11.8	3.5	13.0	10.2	3.6	10.7	14.1	2.4	11.6	9.3	13.5	10.4	9.4	19.3
STD ERR OF P	1.1	1.7	1.9	2.9	2.0	1.3	1.6	1.2	1.3	3.3	1.7	1.6	1.8	1.1	4.3	1.7	5.1	2.7	2.6	5.1
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	49.0	-4.2	-2.3	-1.6	8.4*	-2.0	2.0	-5.2	1.4	-11.3#	13.0*	-1.2	-2.3	1.1	-10.4	0.7	-1.0	-0.5	8.3	-1.1
STD ERR OF DP		2.8	3.5	3.5	3.5	1.3	1.2	3.2	0.7	4.4	6.3	2.2	1.9	5.6	6.8	2.8	4.3	4.8	5.3	4.7
STD ERR OF P	1.9	2.8	4.3	4.1	4.0	2.1	2.4	3.5	2.0	4.7	6.7	2.7	2.9	5.9	7.0	3.4	4.3	5.1	5.6	5.2

Report #: UD02

NAEP #: D20007-1

Content Area: D. SETS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 01-16
National P-value:
UD02 19.66

Timing: (in seconds)
UD02 Exercise total: 45

EXERCISE: UD02

This unreleased exercise dealt with SETS at the level of Objective II.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	4.8	0.1	0.1	0.5	-0.7	1.9#	-2.0#	0.7	-0.7#	0.5	4.3	-1.2	-1.9#	3.3*	0.9	1.2	-0.0	-0.2	-2.3#	-2.6#
STD ERR OF DP		0.8	0.9	0.8	1.0	0.5	0.5	1.0	0.3	2.5	3.7	0.7	0.7	1.4	1.3	0.8	1.8	1.3	0.9	1.0
STD ERR OF P	0.5	0.9	1.1	0.9	1.2	0.9	0.4	1.0	0.5	2.7	3.8	0.9	0.7	1.5	1.3	0.9	2.0	1.4	0.8	1.1

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	19.7	-6.1#	-1.2	6.3#	0.0	-1.7	1.7	-11.5#	2.8#	-5.8*	-6.5*	-1.3	5.8#	-8.9#	-5.1	0.8	-1.0	-3.4	3.6	6.6
STD ERR OF DP		2.0	1.7	2.1	1.6	1.1	1.1	1.5	0.5	2.8	3.1	1.7	1.5	2.2	4.5	1.6	1.9	2.1	2.2	4.0
P-VALUE	19.7	13.5	18.5	26.0	19.7	18.0	21.3	8.1	22.5	13.9	13.2	18.4	25.5	10.8	14.6	20.4	18.7	16.3	23.2	26.2
STD ERR OF P	1.1	2.2	1.8	2.7	1.7	1.4	1.7	1.3	1.4	2.8	3.0	2.0	2.3	1.9	4.7	2.2	2.1	2.1	2.1	4.4

RESPONSE: 03 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	27.3	-0.6	1.7	-4.8*	3.9	-1.6	1.6	-7.5#	1.1	-2.6	-4.5	-4.7*	-2.7	-1.8	0.6	-0.2	-1.5	4.0	-3.5	2.7
STD ERR OF DP		3.0	2.2	2.3	3.1	0.9	0.9	2.7	0.6	3.7	4.1	2.1	1.8	4.6	4.3	2.6	2.7	4.5	2.9	3.8
STD ERR OF P	1.5	3.4	2.3	2.6	3.8	1.7	1.8	2.6	1.8	4.5	4.1	2.5	2.2	4.7	4.1	3.6	3.0	4.7	2.7	4.0

Report #: UD03

NAEP #: D20009-23

Content Area: D. SETS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		08-32	05-23
National P-value:			
	UD03	39.04	56.57
Timing: (in seconds)			
UD03	Exercise total:	45	43

EXERCISE: UD03

This unreleased exercise dealt with SETS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT. No Response.																				
DELTA-P	2.5	-2.1	5.4	-1.4	-1.9	0.4	-0.4	0.1	-0.8	2.7	-2.4	0.2	-0.9	12.6	-2.5*	-1.3	-2.0	-1.4	3.0	-2.5*
STD ERR OF DP		1.3	3.7	1.3	1.3	0.5	0.5	1.1	0.4	2.1	1.3	0.4	0.5	11.3	1.3	1.3	1.3	1.5	4.4	1.3
STD ERR OF P	1.3	0.2	5.0	0.4	0.3	1.5	1.2	1.0	0.9	2.8	0.2	1.6	0.8	12.1	0.0	0.4	0.4	0.7	5.1	0.0
AGE: 17																				
DELTA-P	1.6	-0.9*	-0.3	-0.2	1.3	0.1	-0.1	2.2*	-0.5#	1.1	-0.4	0.2	-0.5	1.6	0.3	-0.9	-0.9	-0.2	0.4	1.6
STD ERR OF DP		0.4	0.5	0.5	1.1	0.3	0.3	0.9	0.2	0.7	0.7	0.4	0.3	0.9	0.7	0.5	0.6	1.0	1.2	2.1
STD ERR OF P	0.4	0.2	0.4	0.6	1.4	0.4	0.6	1.1	0.4	0.6	0.6	0.7	0.4	1.0	0.5	0.3	0.4	1.0	1.3	2.4
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	39.0	-4.9	-8.7#	4.6	9.3*	-2.0	2.1	-22.5*	4.9#	-13.8#	-9.5*	0.2	9.0#	-25.8#	-0.1	-0.3	-5.1	5.4	9.9	8.1
STD ERR OF DP		2.8	3.1	3.4	4.3	1.2	1.2	2.7	0.8	3.7	3.9	1.7	1.6	3.9	6.9	3.5	3.8	4.9	5.5	5.0
P-VALUE	39.0	34.2	30.3	43.7	48.3	37.0	41.1	16.6	43.9	25.2	29.6	39.2	48.1	13.3	39.0	38.7	34.0	44.4	49.0	47.1
STD ERR OF P	2.0	2.7	3.3	4.0	5.3	2.3	2.4	2.7	2.2	3.2	4.2	2.7	2.8	3.6	7.2	4.2	3.4	5.1	6.1	5.5
AGE: 17																				
DELTA-P	56.6	-2.7	-2.2	3.6	0.2	-2.5	2.2	-24.5#	5.5#	-22.3#	-12.4#	-3.7	12.9#	-28.5#	-4.3	-0.6	3.6	3.3	5.3	15.1#
STD ERR OF DP		3.3	3.2	3.1	3.9	1.4	1.1	3.3	1.0	4.7	3.4	2.1	1.2	5.1	8.4	2.7	3.8	5.8	4.5	4.6
P-VALUE	56.6	53.8	54.4	60.2	56.8	54.0	58.8	32.1	62.1	34.3	44.2	52.9	69.5	28.1	52.3	56.0	60.2	59.9	61.8	71.7
STD ERR OF P	2.0	3.4	3.5	3.7	4.9	2.1	2.5	3.3	2.1	4.8	3.4	3.3	1.8	4.9	8.6	3.4	3.7	5.7	4.8	5.2
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	12.2	0.5	1.9	-2.2	-0.1	0.3	-0.3	6.8#	-1.4#	2.2	-0.2	-0.2	-4.4#	10.8*	-4.1	2.1	0.2	-3.4	-4.5#	-0.6
STD ERR OF DP		1.3	1.6	1.3	2.0	0.8	0.8	2.4	0.4	2.8	3.0	1.5	0.7	4.7	2.3	1.5	1.7	1.7	1.6	2.7
STD ERR OF P	0.9	1.3	1.9	1.4	2.5	1.1	1.3	2.5	1.0	2.9	3.0	1.6	1.1	4.8	2.1	1.8	1.9	1.8	1.7	3.1
AGE: 17																				
DELTA-P	10.7	1.3	1.7	-3.0*	0.7	0.5	-0.4	9.4#	-2.2#	10.8#	6.2*	0.9	-5.7#	10.0#	-1.7	1.7	-2.5	0.3	-2.8	-5.9#
STD ERR OF DP		1.6	1.4	1.2	1.8	0.8	0.7	2.6	0.7	3.8	2.6	1.1	0.8	3.1	2.7	1.2	1.8	2.6	2.0	2.0
STD ERR OF P	0.9	1.7	1.6	1.4	2.2	1.1	1.2	2.8	0.9	4.1	2.8	1.3	0.9	3.1	2.7	1.5	1.9	2.7	2.1	2.1

Report #: 0D04

NAEP #: D20011-23

Content Area: D. SETS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:		13	17
Package-Exercise:		04-32	03-21
National P-value:			
	0D04	59.17	71.00

Timing: (in seconds)

0D04	Exercise total:	89	50

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO

EXERCISE: UD04

This unreleased exercise dealt with SETS at the level of Objective I.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.6	-0.4	4.9	-2.7	-1.6	0.8	-0.9	2.3	-1.0	3.6	-0.4	-0.2	-1.4	12.1	1.3	-2.2	-2.1	-3.0*	1.6	-1.8
STD ERR OF DP		1.9	3.8	1.4	1.4	0.5	0.5	2.0	0.5	2.6	1.7	0.5	1.1	9.9	2.9	1.4	1.6	1.3	3.6	1.8
STD ERR OF P	1.4	1.7	5.1	0.5	0.6	1.8	1.0	2.4	1.0	3.5	1.5	1.5	1.3	11.0	2.9	0.5	0.9	0.2	4.3	1.2
AGE: 17																				
DELTA-P	1.5	0.5	-0.1	-0.8*	0.5	0.0	-0.0	2.8	-0.5*	0.8	0.9	-0.5	-0.9#	3.8	0.5	-0.1	-0.5	-1.5#	-0.4	-0.4
STD ERR OF DP		0.7	0.5	0.4	0.6	0.3	0.3	1.4	0.2	1.3	0.5	0.3	0.3	2.0	1.0	0.5	0.4	0.3	0.6	0.8
STD ERR OF P	0.3	0.8	0.5	0.3	0.8	0.4	0.4	1.5	0.3	1.4	0.4	0.4	0.2	2.1	1.1	0.7	0.3	0.0	0.5	0.9
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	59.2	-10.2#	-3.6	2.4	9.5#	-2.0	2.2	-26.1#	5.8#	-15.4#	-10.5#	0.3	13.2#	-27.1#	-8.4	2.1	-3.2	8.6*	7.1	14.0#
STD ERR OF DP		3.0	3.8	3.6	3.0	1.1	1.2	3.3	0.9	3.8	3.6	1.7	1.5	5.3	4.4	2.[illegible]	4.0	3.5	4.4	5.4
P-VALUE	59.2	49.0	55.5	61.6	68.7	57.1	61.4	33.1	65.0	43.8	48.7	59.5	72.3	32.1	50.8	6[illegible].3	56.0	67.7	66.2	73.1
STD ERR OF P	2.0	2.8	4.5	4.5	3.3	2.3	2.3	3.1	2.0	4.1	3.8	2.8	2.3	5.5	4.7	3.0	4.3	3.7	5.2	5.8
AGE: 17																				
DELTA-P	71.0	-5.7*	3.0	-0.0	2.4	-0.5	0.5	-25.9#	4.7#	-26.1#	-9.8#	-1.3	11.7#	-27.0#	-[illegible].7	-2.4	7.9#	2.8	4.8*	14.3#
STD ERR OF DP		2.8	2.8	2.2	2.6	1.1	1.1	3.1	0.8	3.8	2.8	1.9	1.6	3.3	4.4	2.4	2.7	3.6	2.3	2.5
P-VALUE	71.0	65.3	74.0	71.0	73.4	70.5	71.5	45.1	75.7	44.9	61.2	69.7	82.7	44.0	63.3	68.6	78.9	73.8	75.8	85.3
STD ERR OF P	1.5	3.2	3.2	2.5	3.1	1.9	1.8	3.3	1.5	4.2	3.2	2.3	1.7	3.4	4.6	2.9	2.7	3.5	2.1	2.7
RESPONSE: 03 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	8.6	0.3	0.6	1.5	-2.5	-0.7	0.8	8.8#	-1.9#	2.0	1.4	0.9	-4.8#	9.1*	2.7	-0.6	1.4	-2.3	-3.4	-4.5#
STD ERR OF DP		1.4	1.7	1.5	1.5	0.6	0.6	2.8	0.6	2.3	2.1	1.1	0.8	3.8	2.9	1.2	2.0	2.1	2.5	1.7
STD ERR OF P	0.9	1.3	2.0	1.8	1.7	1.0	1.1	3.2	0.8	2.5	2.3	1.5	0.7	4.0	3.2	1.2	2.1	2.2	2.8	1.6
AGE: 17																				
DELTA-P	6.7	3.4#	-1.9	-1.2	-0.1	0.7	-0.7	6.1#	-1.1#	5.8*	6.6#	0.6	-4.1#	2.2	3.7	0.4	-0.3	-2.0	-0.3	-3.8#
STD ERR OF DP		1.2	1.0	1.0	1.2	0.7	0.7	2.3	0.4	2.4	2.0	0.9	0.6	2.5	2.3	1.1	1.5	1.9	1.4	1.3
STD ERR OF P	0.6	1.3	0.9	1.1	1.5	1.0	0.8	2.4	0.7	2.5	2.1	1.2	0.6	2.5	2.3	1.3	1.5	2.1	1.6	1.4

Report #: UD05

NAEP #: D20030-12

Content Area: D. SETS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		06-34	05-06
National P-value:			
	UD05	44.82	88.17

Timing: (in seconds)

UD05	Exercise total:	25	25

EXERCISE: UD05

This unreleased exercise dealt with SETS at the level of Objective I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.3	0.4	-0.0	-1.4*	1.1	0.5	-0.5	1.5	-0.3	-0.4	1.7	-1.8*	-0.7	5.4*	-0.2	-0.1	-0.6	-0.7	-1.1	-0.8
STD ERR OF DP		0.7	0.6	0.5	0.8	0.3	0.3	1.0	0.3	1.4	1.7	0.4	0.5	2.1	0.7	0.6	0.8	0.9	0.7	0.7
STD ERR OF P	0.4	0.8	0.5	0.4	1.0	0.6	0.4	1.2	0.4	1.4	1.8	0.3	0.5	2.3	0.7	0.7	0.9	0.9	0.7	0.7
AGE: 13																				
DELTA-P	0.7	0.2	-0.0	0.0	-0.2	0.1	-0.1	3.4*	-0.5*	-0.4	0.5	-0.3	-0.3	3.4*	0.1	-0.3	0.4	-0.3	-0.6*	-0.7*
STD ERR OF DP		0.3	0.3	0.3	0.2	0.2	0.2	0.8	0.1	0.3	0.8	0.2	0.2	1.1	0.6	0.2	0.4	0.3	0.2	0.2
STD ERR OF P	0.2	0.4	0.3	0.3	0.2	0.2	0.2	0.9	0.1	0.3	0.8	0.2	0.2	1.2	0.6	0.2	0.5	0.3	0.2	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	44.8	-8.7*	3.9	4.2	0.5	-0.9	0.9	-26 2*	6.2*	-9.9*	-14.9*	5.6*	11.0*	-26.5*	-2.1	-2.3	6.7	-2.7	11.0*	9.9*
STD ERR OF DP		2.3	2.4	2.8	2.4	1.1	1.1	[illegible].4	0.9	3.7	4.1	1.9	2.2	4.4	4.4	2.5	5.0	5.0	3.3	4.0
P-VALUE	44.8	36.1	48.7	49.1	45.3	44.0	45.7	[illegible]3.7	51.1	34.9	29.9	50.4	55.8	18.3	42.7	42.5	51.5	42.1	55.8	54.7
STD ERR OF P	1.5	2.4	2.5	3.6	2.7	1.8	1.9	2.2	1.6	3.8	4.5	2.4	2.4	4.4	4.3	2.6	5.3	5.3	3.7	4.1
AGE: 13																				
DELTA-P	88.2	-9.7*	2.7	1.3	4.4*	-0.8	0.8	-28.8*	4.9*	-18.3*	-8.6*	1.8	6.3*	-20.9*	-2.0	-0.6	2.6	-2.0	4.7*	9.6*
STD ERR OF DP		3.1	1.8	2.0	1.7	0.7	0.7	2.6	0.7	3.5	2.5	0.9	1.0	4.5	2.9	1.6	2.8	3.2	1.9	1.5
P-VALUE	88.2	78.5	90.8	89.5	92.6	87.4	89.0	59.4	93.1	69.9	79.6	89.9	94.4	67.3	86.1	87.6	90.8	86.2	92.9	97.8
STD ERR OF P	1.2	3.7	1.8	2.4	1.6	1.3	1.5	3.2	0.8	4.0	2.9	1.7	0.9	4.7	3.0	2.1	3.1	3.5	1.9	1.1
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	15.0	-2.0	-2.0	1.4	1.9	-1.2	1.2	-3.7*	0.3	3.5	-4.2	-2.4	-3.3*	1.8	-5.6*	0.7	-0.1	2.0	-1.4	0.8
STD ERR OF DP		1.9	1.8	2.0	2.3	0.8	0.8	1.7	0.6	3.4	3.3	1.3	1.2	2.7	2.1	1.7	2.5	4.9	2.2	2.3
STD ERR OF P	1.2	2.0	1.8	2.5	2.8	1.5	1.4	2.2	1.2	3.4	3.7	1.9	1.5	2.7	1.9	2.0	2.6	5.6	2.4	2.6
AGE: 13																				
DELTA-P	2.3	1.1	0.1	-0.1	-0.9	-0.0	0.0	3.7*	-0.7*	0.7	3.0	-0.6	-1.2*	4.2*	1.8	0.1	-1.5*	-1.0	0.3	-2.3*
STD ERR OF DP		0.6	0.7	0.5	0.6	0.2	0.2	1.5	0.3	1.3	1.5	0.4	0.3	1.5	1.4	0.5	0.5	0.7	1.0	0.4
STD ERR OF P	0.4	0.6	0.9	0.6	0.7	0.4	0.5	1.7	0.3	1.3	1.7	0.5	0.3	1.7	1.5	0.5	0.4	0.8	1.2	0.0

Report #: UE01

NAEP #: E10003-1234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple part multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		03-09	09-05	06-26	03-03
National P-value:					
	UE01A	81.91	94.06	96.83	96.19
	UE01B	36.07	72.74	84.67	92.11
	UE01C	83.44	91.93	94.43	94.82
	UE01D	53.92	86.68	94.38	98.52
	UE01E	82.80	91.55	93.24	89.19

Timing: (in seconds)

		9	13	17	Adult
UE01A	Part total:	20	19	18	*
UE01B	Part total:	16	16	16	*
UE01C	Part total:	18	17	16	*
UE01D	Part total:	15	15	14	*
UE01E	Part total:	17	18	19	*
UE01	Exercise total:	86	85	83	*

*Time not limited by paced tape.

EXERCISE: UE01

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective I.

Part A.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.4	0.1	-0.2	0.2	-0.1	0.1	-0.1	1.8#	-0.3#	0.2	1.6	-0.1	-0.2	2.4*	-0.4#	-0.3*	-0.2	0.4	-0.2	-0.4#
STD ERR OF DP		0.2	0.2	0.3	0.2	0.1	0.1	0.6	0.1	0.6	1.5	0.2	0.1	1.0	0.1	0.1	0.2	0.5	0.2	0.1
STD ERR OF P	0.1	0.2	0.1	0.4	0.1	0.2	0.2	0.7	0.1	0.6	1.6	0.2	0.1	1.1	0.0	0.1	0.2	0.6	0.2	0.0
AGE: 13																				
DELTA-P	0.2	0.3	-0.2	0.1	-0.2	0.1	-0.1	0.3	-0.0	-0.2	-0.2	0.2	-0.2	-0.2	-0.2	-0.1	1.0	-0.2	-0.2	-0.2
STD ERR OF DP		0.2	0.1	0.2	0.1	0.1	0.1	0.3	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.0	0.2	0.0	0.2	0.1	0.4	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.6	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.2	0.1	0.0	-0.0	-0.1	0.2	-0.2	0.6	-0.1	-0.2*	0.2	-0.1	0.0	0.8	-0.2*	0.1	-0.2*	-0.2*	-0.2*	0.1
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.1	0.4	0.1	0.1	0.6	0.1	0.2	0.1	0.1	0.1	0.3
STD ERR OF P	0.1	0.4	0.2	0.2	0.2	0.2	0.1	0.5	0.1	0.0	0.5	0.1	0.2	0.7	0.0	0.3	0.0	0.0	0.0	0.3
AGE: Ad																				
Response did not occur at this age.																				
RESPONSE: 02* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	81.9	-3.7*	-2.6	2.0	4.0*	1.4	-1.5	-19.2#	4.1#	-12.9#	-13.2*	2.3	5.4#	-16.2#	-1.4	-0.6	1.3	-0.1	5.1*	6.3*
STD ERR OF DP		1.6	2.0	1.7	1.6	0.9	1.0	2.3	0.7	4.9	6.2	1.5	1.4	4.8	2.8	1.5	2.6	3.6	2.4	2.6
P-VALUE	81.9	78.3	79.4	83.9	85.9	83.3	80.4	62.7	86.0	69.0	68.7	84.2	87.3	65.7	80.5	81.3	83.2	81.9	87.0	88.2
STD ERR OF P	1.1	1.5	2.5	2.1	1.7	1.4	1.4	2.4	1.2	5.2	6.1	1.6	1.5	4.7	2.7	2.1	2.7	3.9	2.3	2.8
AGE: 13																				
DELTA-P	94.1	-1.8	-0.5	1.4	0.8	1.2*	-1.3#	-11.8#	2.0#	-2.5	-1.5	0.8	2.2#	-9.7#	-0.9	1.7*	-2.1*	0.6	0.5	2.1
STD ERR OF DP		1.0	0.9	1.0	0.9	0.5	0.5	2.3	0.4	1.9	1.8	0.7	0.6	2.7	2.8	0.8	1.0	1.4	1.4	1.3
P-VALUE	94.1	92.3	93.6	95.4	94.8	95.2	92.8	82.3	96.0	91.6	92.6	94.9	96.2	84.4	93.2	95.7	92.0	94.6	94.6	96.1
STD ERR OF P	0.5	1.1	1.1	1.1	1.0	0.7	0.8	2.4	0.5	2.1	1.7	0.9	0.6	2.8	3.0	0.8	1.1	1.5	1.5	1.3
AGE: 17																				
DELTA-P	96.8	-1.0	-0.1	1.2*	-0.5	0.6	-0.5	-6.2#	1.2#	-3.5*	-2.1	0.5	1.5#	-1.4	-0.7	-1.1	-0.9	1.2	2.0#	1.8*
STD ERR OF DP		0.8	0.7	0.5	0.8	0.4	0.3	1.6	0.3	1.6	1.1	0.6	0.4	1.1	1.6	0.6	1.1	1.1	0.6	0.8
P-VALUE	96.8	95.9	96.7	98.1	96.4	97.4	96.3	90.7	98.1	93.3	94.7	97.4	98.4	95.4	96.2	95.8	95.9	98.0	98.8	98.6
STD ERR OF P	0.4	0.9	0.7	0.5	1.0	0.5	0.6	1.8	0.4	1.6	1.3	0.8	0.4	1.1	1.7	0.8	1.2	1.1	0.5	0.9
AGE: Ad																				
DELTA-P	96.2	-0.2	-1.0	1.4*	-0.5	2.1#	-1.9#	-7.7*	1.1#	-0.8	0.7	-0.7	2.0#	-8.4*	2.4#	0.8	1.2	-0.2	-1.4	2.7#
STD ERR OF DP		0.8	0.9	0.7	1.3	0.5	0.5	3.2	0.4	0.8	0.8	0.9	0.8	3.5	0.9	0.7	1.2	2.0	2.3	0.9
P-VALUE	96.2	96.0	95.2	97.6	95.7	98.3	94.3	88.5	97.3	95.4	96.9	95.5	98.2	87.8	98.6	97.0	97.4	96.0	94.8	98.9
STD ERR OF P	0.5	0.8	1.0	0.7	1.6	0.7	0.7	3.5	0.5	0.8	0.9	1.3	0.8	3.8	0.7	0.6	1.1	2.1	2.4	0.8
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	1.9	1.6*	0.3	-0.9	-0.8	-0.5	0.5	2.6#	-0.6#	-0.9	-0.2	-0.8	-0.8	0.3	-0.7	1.2	-1.3*	-0.4	-0.3	-1.5#
STD ERR OF DP		0.7	0.9	0.5	0.5	0.4	0.5	0.8	0.2	0.9	1.3	0.6	0.5	0.9	1.0	0.6	0.6	0.7	0.8	0.6
STD ERR OF P	0.4	0.8	1.2	0.5	0.5	0.3	0.8	0.8	0.5	0.8	1.2	0.6	0.4	0.9	1.0	1.0	0.5	0.7	0.7	0.4
AGE: 13																				
DELTA-P	0.3	0.1	-0.0	0.1	-0.2	-0.3*	0.3*	0.5	-0.0	0.9	0.1	0.1	-0.3*	-0.3#	0.1	-0.2	0.8	0.3	-0.2	-0.3#
STD ERR OF DP		0.2	0.2	0.2	0.1	0.1	0.1	0.6	0.1	0.9	0.4	0.2	0.1	0.1	0.4	0.1	0.5	0.5	0.3	0.1
STD ERR OF P	0.1	0.3	0.2	0.3	0.1	0.0	0.2	0.6	0.1	0.9	0.4	0.2	0.0	0.0	0.4	0.1	0.6	0.5	0.1	0.0
AGE: 17																				
DELTA-P	0.3	0.2	-0.1	-0.1	0.1	-0.1	0.1	0.1	-0.1	1.0	-0.3#	-0.2	-0.2	-0.0	0.2	0.1	-0.2	-0.0	-0.1	-0.0
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.3	0.1	0.7	0.1	0.2	0.1	0.3	0.5	0.2	0.2	0.3	0.2	0.3
STD ERR OF P	0.1	0.4	0.2	0.2	0.2	0.1	0.2	0.3	0.1	0.7	0.0	0.1	0.1	0.3	0.5	0.3	0.2	0.3	0.2	0.3

EXERCISE: UE01

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective I.

Part A.

RESPONSE: 09 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.0	-0.5	0.2	-0.4	0.7	-0.3	0.3	2.3	-0.3	-0.3	-0.7	0.9	-0.5	3.4	-1.0#	-0.7	0.2	-1.0#	1.9	-1.0#
STD ERR OF DP		0.4	0.7	0.5	1.0	0.4	0.4	2.4	0.3	0.5	0.5	0.8	0.5	2.8	0.4	0.4	0.7	0.4	1.9	0.4
STD ERR OF P	0.4	0.3	0.8	0.5	1.2	0.6	0.5	2.7	0.3	0.4	0.3	1.2	0.5	3.1	0.0	0.2	0.6	0.0	2.1	0.0

EXERCISE: UE01

Part B.

RESPONSE: 00 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 9																				
DELTA-P	0.7	0.4	-0.5*	0.3	-0.1	0.1	-0.1	2.3#	-0.4#	1.2	0.0	0.0	-0.4*	4.0#	-0.2	-0.4*	-0.7#	0.1	-0.0	-0.5*
STD ERR OF DP		0.3	0.2	0.4	0.2	0.1	0.1	0.6	0.1	1.0	0.6	0.2	0.2	1.1	0.5	0.2	0.2	0.6	0.3	0.2
STD ERR OF P	0.2	0.3	0.1	0.6	0.2	0.2	0.2	0.7	0.1	1.1	0.7	0.3	0.1	1.3	0.5	0.2	0.0	0.6	0.4	0.2
AGE: 13																				
DELTA-P	0.1	0.0	-0.2	0.1	0.0	0.1	-0.2	-0.2	0.0	0.5	-0.2	0.1	-0.2	-0.2	-0.2	-0.2	0.7	0.3	-0.2	-0.2
STD ERR OF DP		0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.6	0.1	0.2	0.1	0.1	0.1	0.1	0.5	0.4	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.2	0.2	0.2	0.0	0.0	0.1	0.7	0.0	0.2	0.0	0.0	0.0	0.0	0.6	0.4	0.0	0.0
AGE: 17																				
DELTA-P	0.3	0.1	-0.0	-0.1	0.1	0.2	-0.2	0.6	-0.1	-0.3#	0.2	-0.1	0.1	0.8	-0.3#	0.1	-0.3#	0.4	-0.3#	0.0
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.1	0.4	0.1	0.2	0.7	0.1	0.2	0.1	0.7	0.1	0.3
STD ERR OF P	0.1	0.4	0.2	0.2	0.2	0.2	0.1	0.5	0.1	0.0	0.5	0.1	0.2	0.7	0.0	0.3	0.0	0.7	0.0	0.3

AGE: Ad

Response did not occur at this age.

RESPONSE: 01* TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 9																				
DELTA-P	36.1	-0.0	-0.7	-3.0	4.5	1.3	-1.4	6.9#	-1.2*	-2.8	11.6	-3.3	2.0	4.5	-3.7	0.2	-0.6	-7.2*	-1.9	7.2*
STD ERR OF DP		2.2	2.1	1.6	2.6	1.1	1.1	2.7	0.6	5.4	6.3	2.1	1.8	4.1	3.2	1.4	2.9	3.4	2.6	3.0
P-VALUE	36.1	36.0	35.4	33.0	40.5	37.4	34.6	43.0	34.9	33.3	47.6	32.8	38.1	40.5	32.4	36.3	35.5	28.9	34.2	43.2
STD ERR OF P	1.2	2.4	2.4	1.7	3.1	1.8	1.4	3.0	1.3	5.4	6.6	2.6	2.1	4.3	3.5	2.0	3.1	3.6	2.6	3.3
AGE: 13																				
DELTA-P	72.7	-6.1#	-2.8	3.2	5.6#	3.2#	-3.5#	-29.0#	5.1#	-12.1#	-6.4	-0.6	9.3#	-20.1#	0.2	0.6	3.5	-6.7	1.5	8.5#
STD ERR OF DP		2.3	2.1	2.1	2.1	1.0	1.1	3.2	0.8	3.3	3.3	1.4	1.0	3.7	4.7	1.7	2.2	4.1	3.7	2.9
P-VALUE	72.7	66.6	70.0	76.0	78.3	76.0	69.2	43.7	77.8	60.7	66.4	72.2	82.0	52.6	72.9	73.4	76.2	66.0	74.2	81.2
STD ERR OF P	1.2	2.6	2.4	2.5	2.4	1.8	1.4	3.7	1.2	3.2	3.6	1.8	1.5	3.8	5.0	1.9	2.3	4.2	4.1	3.1
AGE: 17																				
DELTA-P	84.7	-2.3	-5.5#	2.0	4.6#	1.1	-1.0	-27.5#	5.0#	-11.7#	-10.2#	3.2#	4.7#	-13.4#	1.2	0.9	-1.2	-3.0	2.4	4.9#
STD ERR OF DP		1.9	1.8	1.2	1.1	0.8	0.8	3.2	0.8	3.6	2.6	1.2	0.9	3.6	2.5	1.1	2.3	3.7	1.9	1.7
P-VALUE	84.7	82.4	79.2	86.7	89.3	85.8	83.6	57.2	85.7	73.0	74.5	87.9	89.4	71.2	85.8	85.5	83.5	81.6	87.1	89.6
STD ERR OF P	0.9	2.2	2.2	1.2	1.2	1.3	1.1	3.6	0.7	3.8	2.7	1.5	1.0	3.9	2.6	1.3	2.4	3.9	2.1	1.8
AGE: Ad																				
DELTA-P	92.1	-1.5	-0.7	1.8	-0.1	1.9#	-1.7#	-22.0#	3.8#	-3.2#	-0.7	1.2	3.2#	-12.8#	0.4	0.8	0.7	2.0	-0.7	5.4#
STD ERR OF DP		1.9	1.6	1.2	1.3	0.7	0.7	3.0	0.6	1.3	1.7	0.9	0.8	3.4	1.7	1.1	1.9	2.2	2.6	1.4
P-VALUE	92.1	90.6	91.5	93.9	92.1	94.0	90.4	70.1	95.9	88.9	91.4	93.3	95.3	79.4	92.5	92.9	92.8	94.1	91.4	97.5
STD ERR OF P	0.9	2.2	2.0	1.3	1.4	1.0	1.2	3.3	0.6	1.7	1.7	1.4	0.9	3.8	1.7	1.2	2.0	2.1	3.0	1.2

RESPONSE: 09 AGE: 9 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.2	-0.3	0.7	-0.4	-0.1	-0.9*	0.9*	-0.1	-0.1	-0.1	-2.7#	-0.6	-0.2	0.3	-0.3	-0.3	0.5	0.6	0.2	-0.3
STD ERR OF DP		0.5	0.9	0.5	0.7	0.4	0.4	0.7	0.2	1.6	0.5	0.8	0.5	1.4	1.2	0.5	1.1	1.2	0.8	1.1
STD ERR OF P	0.4	0.4	1.2	0.5	0.7	0.4	0.7	0.7	0.5	1.7	0.4	0.8	0.6	1.4	1.1	0.6	1.2	1.3	0.9	1.3

EXERCISE: UE01

This unreleased exercise deal with ESTIMATION AND MEASUREMENT at the level of Objective I.

Part B.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	1.1	0.2	0.5	0.0	-0.8*	-0.4	0.4	0.0	-0.0	-0.0	-0.3	-0.3	0.0	-0.3	-1.0*	-0.2	0.5	-0.2	1.2	-0.3
STD ERR OF DP		0.4	0.5	0.4	0.3	0.2	0.3	0.6	0.1	1.0	0.6	0.3	0.3	0.5	0.3	0.3	0.8	0.7	0.9	0.5
STD ERR OF P	0.2	0.4	0.6	0.5	0.3	0.3	0.4	0.6	0.3	1.1	0.6	0.3	0.4	0.4	0.1	0.3	0.9	0.7	1.0	0.6
AGE: 17																				
DELTA-P	0.8	0.1	0.8*	-0.6*	-0.2	-0.0	0.0	0.6	-0.2	0.8	0.6	-0.5*	-0.2	0.0	0.2	-0.1	0.4	0.0	0.1	-0.5
STD ERR OF DP		0.4	0.4	0.2	0.3	0.2	0.2	0.6	0.1	1.0	0.7	0.2	0.2	0.5	0.7	0.3	0.5	0.8	0.4	0.3
STD ERR OF P	0.2	0.5	0.5	0.2	0.3	0.3	0.3	0.7	0.2	1.0	0.7	0.2	0.2	0.5	0.7	0.3	0.6	0.8	0.5	0.3
AGE: Ad																				
DELTA-P	1.0	0.5	-0.6	-0.1	0.4	-0.0	0.0	5.2	-0.7	0.5	-0.3	0.1	-0.2	3.3	-1.0*	-0.2	-0.1	-1.0*	0.1	-0.5
STD ERR OF DP		0.8	0.4	0.5	1.0	0.4	0.4	2.8	0.4	0.7	0.5	0.7	0.6	2.7	0.4	0.5	0.8	0.4	1.1	0.6
STD ERR OF P	0.4	1.0	0.3	0.6	1.2	0.6	0.5	3.1	0.2	0.8	0.5	0.9	0.6	3.0	0.0	0.6	0.7	0.0	1.1	0.5

EXERCISE: UE01

Part C.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	0.6	0.3	-0.6*	0.4	-0.0	0.2	-0.2	1.6*	-0.3*	3.5*	2.4	-0.6*	-0.4*	2.3*	-0.1	-0.[illegible]*	-0.4	0.5	0.0	-0.4*
STD ERR OF DP		0.2	0.1	0.3	0.2	0.1	0.1	0.4	0.1	1.1	1.8	0.1	0.2	1.0	0.5	0.1	0.2	0.6	0.4	0.2
STD ERR OF P	0.1	0.3	0.0	0.4	0.2	0.2	0.2	0.5	0.1	1.2	1.8	0.0	0.1	1.1	0.5	0.1	0.2	0.6	0.4	0.2
AGE: 13																				
DELTA-P	0.2	-0.0	0.1	0.0	-0.1	0.1	-0.2	-0.2	-0.1	-0.2	0.9	-0.0	-0.2	1.1	-0.2	-0.2	0.6	0.1	-0.2	-0.2
STD ERR OF DP		0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	1.0	0.2	0.1	1.2	0.1	0.1	0.5	0.3	0.1	0.1
STD ERR OF P	0.1	0.2	0.3	0.2	0.2	0.2	0.1	0.0	0.1	0.0	1.1	0.2	0.0	1.2	0.0	0.0	0.6	0.3	0.0	0.0
AGE: 17																				
DELTA-P	0.3	0.0	-0.0	-0.1	0.1	0.3	-0.2	0.5	-0.1	-0.3*	0.1	-0.1	0.1	0.7	-0.3*	0.0	-0.1	0.4	-0.3*	-0.0
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.1	0.4	0.2	0.2	0.7	0.1	0.2	0.2	0.7	0.1	0.3
STD ERR OF P	0.1	0.4	0.2	0.2	0.2	0.2	0.1	0.5	0.1	0.0	0.5	0.1	0.2	0.7	0.0	0.3	0.2	0.7	0.0	0.3
AGE: Ad																				
	Response did not occur at this age.																			
RESPONSE: 02* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	83.4	-4.9*	1.3	0.7	2.3	0.5	-0.5	-20.5*	3.9*	-17.5*	-5.6	4.2*	3.5*	-20.6*	-0.9	-0.1	2.4	2.5	2.5	6.6*
STD ERR OF DP		1.7	1.9	1.6	1.4	0.8	0.9	2.2	0.7	4.5	4.6	1.4	1.0	3.3	2.8	1.4	2.7	3.5	2.4	2.1
P-VALUE	83.4	78.6	84.8	84.2	85.7	83.9	82.9	63.0	87.3	65.9	77.8	87.6	86.9	62.9	82.5	83.4	85.8	86.0	86.0	90.1
STD ERR OF P	1.0	1.9	2.3	1.9	1.4	1.3	1.2	2.4	1.1	4.9	5.0	1.3	1.3	3.2	2.9	1.9	2.8	3.7	2.4	1.9
AGE: 13																				
DELTA-P	91.9	-2.6*	0.2	0.8	1.6	-0.4	0.4	-12.6*	1.9*	-4.2	-4.3	1.6	2.9*	-9.3*	1.8	0.5	-0.8	-2.4	0.3	4.1*
STD ERR OF DP		1.1	1.1	1.5	1.1	0.6	0.7	2.4	0.4	2.7	2.7	0.8	0.8	3.0	2.1	0.8	2.6	2.1	1.7	1.6
P-VALUE	91.9	89.3	92.1	92.7	93.5	91.5	92.4	79.4	93.8	87.7	87.6	93.5	94.9	82.6	93.7	92.4	91.2	89.5	92.3	96.0
STD ERR OF P	0.7	1.2	1.3	1.8	1.1	1.0	0.9	2.6	0.7	2.8	3.0	1.2	0.7	3.1	2.3	0.9	2.9	2.2	1.7	1.5
AGE: 17																				
DELTA-P	94.4	0.3	-1.2	-0.1	0.9	-0.4	0.4	-5.5*	1.0*	-1.4	-2.8	1.0	1.2*	-3.5	2.[illegible]*	-1.9	0.5	-0.5	3.4*	1.0
STD ERR OF DP		0.9	1.0	1.2	1.0	0.7	0.6	1.8	0.3	1.6	1.8	0.8	0.5	2.4	1.0	1.0	1.2	1.9	1.1	1.4
P-VALUE	94.4	94.7	93.2	94.4	95.4	94.0	94.8	88.9	95.4	93.1	91.7	95.4	95.7	90.9	96.6	92.6	94.9	93.9	97.8	95.4
STD ERR OF P	0.6	0.9	1.1	1.5	1.1	1.1	0.7	2.0	0.6	1.8	1.9	1.0	0.7	2.6	0.9	1.3	1.2	2.0	1.1	1.4

EXERCISE: UE01

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective I.

Part C.

RESPONSE: 02* AGE: Ad TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	94.8	-0.1	-0.9	1.0	-0.1	1.8#	-1.6#	-8.2#	1.2#	-0.5	-0.8	-0.3	1.2	-8.6*	-1.3	1.0	1.3	3.5#	-0.3	1.1
STD ERR OF DP		1.2	1.0	0.9	1.3	0.6	0.5	2.6	0.4	1.3	1.4	1.0	1.0	3.7	2.1	0.8	1.7	1.1	1.7	1.9
P-VALUE	94.8	94.7	94.0	95.8	94.7	96.6	93.2	86.7	96.0	94.3	94.1	94.6	96.0	86.2	93.5	95.8	96.2	98.4	94.5	95.9
STD ERR OF P	0.6	1.3	1.1	1.0	1.6	0.8	0.8	3.0	0.6	1.5	1.5	1.3	1.0	4.0	2.1	1.0	1.6	0.9	1.8	2.0

RESPONSE: 09 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.3	1.3*	-0.1	-0.4	-0.6	-0.9#	0.9#	2.6#	-0.5*	-0.6	-0.5	-0.4	-0.8	3.4*	0.1	0.1	-0.8	-0.3	-0.2	-1.2
STD ERR OF DP		0.6	0.4	0.5	0.5	0.3	0.4	1.0	0.2	1.1	1.2	0.6	0.5	1.6	1.0	0.4	0.7	0.7	1.0	0.6
STD ERR OF P	0.3	0.7	0.5	0.5	0.5	0.3	0.5	1.1	0.3	1.1	1.1	0.6	0.5	1.7	1.0	0.5	0.7	0.7	1.1	0.6
AGE: 13																				
DELTA-P	1.3	-0.1	0.3	0.4	-0.6	-0.1	0.1	0.2	-0.1	0.1	0.9	-0.6	-0.2	1.6	-0.4	-0.6*	0.0	0.3	1.4	-0.6
STD ERR OF DP		0.4	0.4	0.5	0.4	0.2	0.3	0.7	0.1	1.1	1.4	0.3	0.3	1.3	0.9	0.3	0.7	0.7	0.9	0.6
STD ERR OF P	0.3	0.5	0.5	0.7	0.4	0.4	0.4	0.7	0.3	1.0	1.5	0.3	0.4	1.4	1.0	0.3	0.8	0.7	1.0	0.6
AGE: 17																				
DELTA-P	0.4	0.2	0.1	-0.2	-0.1	-0.0	0.0	-0.1	0.0	0.0	-0.0	-0.3*	0.0	0.5	-0.1	-0.2	-0.0	-0.4#	-0.1	0.5
STD ERR OF DP		0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.0	0.4	0.3	0.2	0.1	0.5	0.3	0.2	0.4	0.2	0.3	0.6
STD ERR OF P	0.2	0.4	0.4	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.3	0.1	0.2	0.5	0.3	0.2	0.4	0.0	0.3	0.6
AGE: Ad																				
DELTA-P	0.5	-0.2	-0.4	-0.4	1.1	0.1	-0.1	3.2	-0.4	-0.4	0.2	0.5	-0.5	3.6	-0.3	-0.4	-0.1	-0.5	-0.5	-0.5
STD ERR OF DP		0.3	0.3	0.3	0.9	0.3	0.3	2.4	0.3	0.3	0.4	0.6	0.3	2.7	0.4	0.3	0.4	0.3	0.3	0.3
STD ERR OF P	0.3	0.2	0.1	0.1	1.2	0.6	0.2	2.7	0.1	0.1	0.4	0.9	0.0	3.0	0.2	0.1	0.4	0.0	0.0	0.0

EXERCISE: UE01

Part D.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.3	0.2	-0.0	-0.1	-0.0	0.0	-0.0	0.9#	-0.2#	0.3	0.0	-0.2*	-0.1	1.0	-0.3#	-0.0	-0.2	-0.3#	-0.0	0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.3	0.1	0.6	0.3	0.1	0.1	0.6	0.1	0.1	0.1	0.1	0.2	0.3
STD ERR OF P	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.4	0.1	0.6	0.3	0.1	0.2	0.7	0.0	0.1	0.1	0.0	0.2	0.4
AGE: 13																				
DELTA-P	0.1	0.1	-0.1	0.1	0.0	0.1	-0.1	-0.1	-0.0	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1	0.7	0.2	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.5	0.3	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.0
AGE: 17																				
DELTA-P	0.3	0.1	0.0	-0.1	-0.0	0.2	-0.2	0.6	-0.1	-0.3*	0.2	-0.0	-0.0	0.8	-0.3*	0.1	-0.1	-0.3*	-0.3*	0.1
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.1	0.4	0.1	0.1	0.6	0.1	0.2	0.2	0.1	0.1	0.3
STD ERR OF P	0.1	0.4	0.2	0.2	0.2	0.2	0.1	0.5	0.1	0.0	0.5	0.1	0.2	0.7	0.0	0.3	0.2	0.0	0.0	0.3

AGE: Ad

Response did not occur at this age.

RESPONSE: 02* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	53.9	-6.9#	-0.2	4.4	1.5	3.9#	-4.1#	-17.9#	4.2#	-14.7*	0.9	1.0	8.6#	-13.7#	-2.9	-2.8	-0.6	-6.3	6.9*	17.1#
STD ERR OF DP		2.1	2.3	2.6	2.6	1.2	1.2	2.7	0.8	6.2	6.1	2.1	1.8	4.1	3.7	1.9	3.6	3.5	3.0	2.8
P-VALUE	53.9	47.1	53.7	58.3	55.4	57.8	49.8	36.1	58.2	39.2	54.8	55.0	62.5	40.3	51.0	51.1	53.3	47.6	60.9	71.0
STD ERR OF P	1.5	2.0	2.6	3.4	2.9	1.9	1.8	3.2	1.5	6.3	6.4	2.5	2.1	4.4	3.6	2.6	3.6	3.8	3.0	2.7

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
EXERCISE: UE01																				
This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective I.																				
Part D.																				
RESPONSE: 02* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	86.7	-5.0#	-1.1	2.1	3.8#	1.1	-1.1	-25.6#	4.6#	-11.3#	-5.2*	0.4	6.6#	-12.4#	-0.6	-3.5*	2.1	-4.2	6.3#	10.3#
STD ERR OF DP		1.8	1.9	1.3	1.5	0.9	1.0	3.7	0.8	3.7	2.4	1.1	0.9	4.7	2.1	1.4	2.2	3.1	1.6	1.2
P-VALUE	86.7	81.7	85.6	88.8	90.5	87.7	85.5	61.1	91.3	75.4	81.5	87.0	93.3	74.3	86.1	83.2	88.7	82.5	93.0	96.9
STD ERR OF P	0.9	2.0	2.4	1.4	1.6	1.4	1.3	4.0	0.8	4.0	2.5	1.5	0.9	4.9	1.9	1.8	2.4	3.4	1.6	1.0
AGE: 17																				
DELTA-P	94.4	-3.0	-0.5	0.4	2.4#	0.1	-0.1	-14.6#	2.2#	-5.7#	-1.9	1.5*	2.8#	-5.9*	-2.0	-0.3	0.5	1.5	1.4	2.7*
STD ERR OF DP		1.5	1.1	0.9	0.8	0.6	0.6	3.1	0.5	2.1	1.3	0.7	0.7	2.8	1.7	0.9	1.4	1.4	1.9	1.3
P-VALUE	94.4	91.3	93.9	94.8	96.8	94.5	94.3	79.8	96.6	88.7	92.5	95.9	97.2	88.5	92.3	94.1	94.9	95.9	95.8	97.1
STD ERR OF P	0.6	1.9	1.3	0.9	0.8	0.7	1.0	3.5	0.5	2.1	1.3	1.1	0.7	2.9	1.8	0.9	1.4	1.6	2.3	1.4
AGE: Ad																				
DELTA-P	98.5	-0.7	0.2	0.9*	-0.8	0.4	-0.4	-6.0#	1.0#	-0.3	-0.4	0.2	0.6	-3.9	-1.6	0.6	0.4	1.0	0.5	0.5
STD ERR OF DP		0.7	0.5	0.4	0.9	0.4	0.4	2.3	0.3	0.5	0.8	0.7	0.5	2.4	1.0	0.4	0.8	0.6	0.7	0.7
P-VALUE	98.5	97.9	98.7	99.5	97.7	98.9	98.2	92.5	99.5	98.2	98.1	98.8	99.1	94.6	96.9	99.2	98.9	99.5	99.0	99.1
STD ERR OF P	0.3	0.8	0.5	0.3	1.1	0.6	0.4	2.6	0.2	0.5	0.9	0.9	0.5	2.6	1.0	0.4	0.8	0.5	0.7	0.6
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	1.9	-0.2	1.0	-0.6	-0.2	0.2	-0.2	0.5	-0.3	-0.6	-0.1	0.2	-0.9*	0.8	-0.3	0.4	-0.3	0.1	-0.1	-1.3*
STD ERR OF DP		0.5	0.8	0.5	0.5	0.4	0.4	0.8	0.2	1.0	1.2	0.7	0.4	1.3	1.1	0.5	0.6	0.8	0.7	0.5
STD ERR OF P	0.4	0.4	1.1	0.6	0.5	0.7	0.3	0.8	0.4	0.9	1.1	1.0	0.4	1.3	1.0	0.8	0.6	0.8	0.8	0.4
AGE: 13																				
DELTA-P	0.2	0.5	-0.1	-0.2*	-0.1	-0.0	0.0	0.7	-0.1	0.3	-0.2*	0.0	-0.2*	-0.2*	0.1	0.0	0.3	-0.2*	0.0	-0.2*
STD ERR OF DP		0.3	0.1	0.1	0.1	0.1	0.1	0.6	0.1	0.5	0.1	0.2	0.1	0.1	0.2	0.1	0.4	0.1	0.2	0.1
STD ERR OF P	0.1	0.4	0.1	0.0	0.1	0.1	0.2	0.6	0.1	0.5	0.0	0.2	0.0	0.0	0.3	0.2	0.5	0.0	0.2	0.0
AGE: 17																				
DELTA-P	0.2	0.3	-0.1	-0.2	0.1	0.0	-0.0	0.0	0.0	0.1	-0.2*	-0.2*	-0.1	0.2	0.0	0.1	-0.2*	0.1	-0.1	0.0
STD ERR OF DP		0.3	0.1	0.1	0.2	0.1	0.1	0.2	0.0	0.3	0.1	0.1	0.1	0.3	0.3	0.2	0.1	0.3	0.1	0.3
STD ERR OF P	0.1	0.4	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.3	0.0	0.0	0.1	0.3	0.3	0.2	0.0	0.3	0.1	0.3
AGE: Ad																				
DELTA-P	0.3	-0.4	-0.4	-0.1	0.8	0.2	-0.2	2.4	-0.4	-0.1	-0.4	0.6	-0.4	2.6	-0.4	-0.4	-0.4	-0.4	-0.4	0.1
STD ERR OF DP		0.3	0.3	0.3	0.9	0.3	0.3	2.4	0.3	0.3	0.3	0.6	0.3	2.6	0.3	0.3	0.3	0.3	0.3	0.5
STD ERR OF P	0.3	0.0	0.0	0.2	1.2	0.6	0.1	2.7	0.0	0.3	0.0	0.9	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.5
EXERCISE: UE01																				
Part E.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.4	0.4#	-0.2	0.1	-0.2	0.1	-0.1	1.4#	-0.3#	0.9#	1.6	-0.1	-0.4#	1.1*	-0.4#	-0.1	0.3	0.2	-0.1	-0.4#
STD ERR OF DP		0.1	0.2	0.2	0.1	0.1	0.1	0.4	0.1	0.2	1.5	0.2	0.1	0.5	0.1	0.1	0.4	0.5	0.2	0.1
STD ERR OF P	0.1	0.1	0.2	0.3	0.1	0.2	0.1	0.5	0.0	0.2	1.6	0.2	0.0	0.5	0.0	0.1	0.5	0.5	0.2	0.0
AGE: 13																				
DELTA-P	0.1	0.1	-0.1	0.1	-0.1	0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1	0.7	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.2	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.3	0.1	0.0	-0.1	-0.0	0.2	-0.2	0.7	-0.1	-0.2	0.2	-0.0	-0.0	0.8	-0.3#	0.1	-0.1	-0.3#	-0.3#	0.0
STD ERR OF DP		0.3	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.2	0.4	0.1	0.1	0.6	0.1	0.2	0.2	0.1	0.1	0.3
STD ERR OF P	0.1	0.4	0.2	0.2	0.2	0.2	0.1	0.5	0.1	0.1	0.5	0.1	0.2	0.7	0.0	0.3	0.2	0.0	0.0	0.3

EXERCISE: UE01

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective I.

Part E.

RESPONSE: 00 AGE: Ad TEXT: No Response.

Response did not occur at this age.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	82.8	-3.8*	0.1	0.3	3.2*	0.3	-0.4	-12.0#	2.5#	-12.4*	-1.9	5.1#	2.6	-11.2#	-0.9	-1.2	-0.4	4.0*	3.3	4.6*
STD ERR OF DP		1.8	2.0	1.7	1.6	0.8	0.9	2.4	0.6	5.9	4.8	1.6	1.3	4.3	3.0	1.3	2.8	2.0	2.3	2.1
P-VALUE	82.8	79.0	82.9	83.1	86.0	83.1	82.4	70.8	85.3	70.4	80.9	87.9	85.4	71.6	81.9	81.6	82.4	86.8	86.1	87.4
STD ERR OF P	1.0	2.0	2.4	1.9	1.7	1.3	1.4	2.6	1.2	5.8	5.0	1.8	1.7	4.6	3.1	1.8	2.3	1.9	2.4	2.3
AGE: 13																				
DELTA-P	91.6	-1.1	-0.7	0.9	0.9	-0.5	0.6	-0.3	0.2	-1.8	-2.7	0.5	1.3	-0.9	-0.2	-1.1	-0.6	1.0	2.2	0.8
STD ERR OF DP		1.6	0.8	1.1	1.1	0.6	0.7	1.8	0.3	2.7	2.6	1.1	0.7	2.4	2.1	1.1	2.0	1.5	1.2	1.5
P-VALUE	91.6	90.4	90.9	92.5	92.4	91.0	92.1	91.2	91.7	89.8	88.9	92.0	92.9	90.7	91.3	90.5	91.0	92.6	93.7	92.3
STD ERR OF P	0.7	2.0	0.7	1.2	1.3	1.0	0.9	1.7	0.8	3.1	2.4	1.4	0.8	2.4	2.2	1.5	2.1	1.5	1.2	1.5
AGE: 17																				
DELTA-P	93.2	-0.4*	0.2	-0.3	0.4	-2.1#	1.9#	-2.8	0.3	-0.2	-0.2	-0.1	0.2	-1.5	1.7	-0.5	-0.7	3.3*	1.4	-2.2
STD ERR OF DP		1.0	1.0	1.1	1.3	0.7	0.6	1.8	0.3	1.8	1.5	0.9	0.7	1.9	1.7	1.0	1.7	1.4	1.2	1.2
P-VALUE	93.2	92.9	93.4	93.0	93.7	91.2	95.1	90.5	93.5	93.0	93.0	93.2	93.5	91.7	95.0	92.8	92.5	96.5	94.6	91.1
STD ERR OF P	0.6	1.0	1.1	1.3	1.6	1.1	0.7	1.8	0.8	1.9	1.7	1.2	0.9	2.0	1.8	1.4	1.8	1.4	1.2	1.1
AGE: Ad																				
DELTA-P	89.2	2.0	-1.6	0.3	-0.2	-0.0	0.0	-4.6	1.3*	-2.3	-0.3	0.3	2.3	-8.9*	1.7	2.1*	1.7	-1.6	2.7	-3.3
STD ERR OF DP		1.2	1.9	1.3	1.5	0.9	0.8	4.1	0.5	1.7	2.0	1.3	1.2	4.4	2.9	1.0	2.7	2.4	1.0	2.6
P-VALUE	89.2	91.1	87.6	89.5	89.0	89.2	89.2	84.6	90.5	86.9	88.9	89.5	91.4	80.3	90.9	91.3	90.8	87.6	91.9	85.9
STD ERR OF P	0.9	1.1	2.5	1.4	1.7	1.4	1.1	4.3	0.9	2.0	2.2	1.5	1.4	4.8	2.9	1.2	2.8	2.4	1.8	2.8

RESPONSE: 09 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	0.7	0.4	0.2	-0.3	-0.3	0.0	-0.1	0.4	-0.1	-0.7#	-0.7#	-0.7#	-0.5	0.7	-0.7#	0.6	-0.2	-0.5	-0.7#	-0.7#
STD ERR OF DP		0.5	0.6	0.3	0.3	0.1	0.1	0.6	0.1	0.3	0.3	0.3	0.3	0.9	0.3	0.4	0.4	0.3	0.3	0.3
STD ERR OF P	0.3	0.5	0.8	0.2	0.3	0.3	0.3	0.6	0.3	0.0	0.0	0.0	0.2	0.9	0.0	0.6	0.4	0.2	0.0	0.0
AGE: 13																				
DELTA-P	0.0	-0.0	-0.0	-0.0	0.1	0.0	-0.0	-0.0	0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.2	0.2	-0.2	-0.2	0.1	-0.0	0.0	0.1	0.0	-0.2	-0.2	-0.2	-0.1	0.2	-0.2	0.1	-0.2	-0.2	-0.1	0.1
STD ERR OF DP		0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.3
STD ERR OF P	0.1	0.4	0.0	0.0	0.2	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.2	0.0	0.0	0.1	0.3
AGE: Ad																				
DELTA-P	0.3	-0.3	-0.2	-0.3	0.9	0.3	-0.3	2.4	-0.3	-0.3	-0.3	0.6	-0.2	2.7	-0.3	-0.3	-0.3	0.1	-0.3	-0.3
STD ERR OF DP		0.3	0.3	0.3	0.9	0.3	0.3	2.4	0.3	0.3	0.3	0.6	0.3	2.6	0.3	0.3	0.3	0.4	0.3	0.3
STD ERR OF P	0.3	0.0	0.1	0.0	1.2	0.6	0.0	2.7	0.0	0.0	0.0	0.9	0.1	2.9	0.0	0.0	0.0	0.4	0.0	0.0

Report #: UE02

NAEP #: E11006-1

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		03-34
National P-value:		
	UE02	50.34

Timing: (in seconds)
UE02 Exercise total: 38

EXERCISE: UE02

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective V.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	0.8	0.3	0.3	-0.5	0.0	-0.2	0.2	0.0	-0.1	-0.8*	-0.8*	-0.7*	-0.3	0.7	0.0	-0.1	-0.8*	0.5	0.9	-0.8*
STD ERR OF DP		0.4	0.4	0.3	0.5	0.2	0.2	0.4	0.1	0.2	0.2	0.2	0.3	0.7	0.6	0.3	0.2	0.6	1.0	0.2
STD ERR OF P	0.2	0.5	0.5	0.2	0.6	0.3	0.3	0.4	0.3	0.0	0.0	0.1	0.3	0.8	0.6	0.3	0.0	0.6	1.1	0.0
RESPONSE: 01* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	50.3	-16.0*	2.4	3.5	8.4*	2.5*	-2.7*	-37.0*	8.1*	-10.9	-10.8	1.2	9.0*	-29.8*	-5.3	-1.4	-1.1	1.7	5.5	19.7*
STD ERR OF DP		2.2	2.5	2.6	2.3	1.0	1.0	2.3	1.0	7.1	6.2	2.0	2.1	3.7	4.7	2.1	4.9	3.9	3.5	3.0
P-VALUE	50.3	34.3	52.7	53.9	58.7	52.8	47.7	13.3	58.4	39.4	39.5	51.6	59.3	20.6	45.0	48.9	49.2	52.1	55.9	70.0
STD ERR OF P	1.5	2.1	2.8	3.3	2.6	1.7	1.8	1.8	1.4	7.2	6.4	2.5	2.6	3.7	4.6	2.7	5.1	3.8	3.6	3.1
RESPONSE: 03 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	2.8	-0.4	1.8	-0.9	-0.5	-0.4	0.5	1.8	-0.5	-2.1*	-0.3	-1.1	-1.9*	1.0	-1.2	0.9	-0.6	-0.5	-0.4	-1.4
STD ERR OF DP		0.7	1.0	0.6	0.6	0.4	0.4	1.2	0.3	0.8	2.1	0.7	0.6	1.4	1.2	0.7	1.0	1.1	1.2	1.0
STD ERR OF P	0.5	0.7	1.3	0.6	0.4	0.6	0.6	1.3	0.6	0.7	2.1	0.7	0.4	1.4	1.2	1.0	1.0	1.1	1.2	0.9

Report #: WE03

NAEP #: 211007-1

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		04-10
National P-value:		
	WE03	41.87

Timing: (in seconds)
WE03 Exercise total: 37

EXERCISE: UN03

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.7	-0.3	0.1	0.2	0.1	0.3	-0.3	1.8*	-0.5#	3.7	0.6	-0.1	-1.0#	1.7	0.3	-0.1	0.4	0.3	-0.2	-1.7#
STD ERR OF DP		0.4	0.7	0.6	0.5	0.3	0.3	0.8	0.2	2.4	1.1	0.5	0.3	1.5	0.7	0.5	1.1	0.8	0.7	0.3
STD ERR OF P	0.3	0.4	0.8	0.8	0.5	0.6	0.3	0.9	0.3	2.5	1.2	0.5	0.3	1.6	0.7	0.6	1.2	0.8	0.8	0.0
RESPONSE: 01* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	41.8	-7.6#	1.9	0.3	5.4*	1.7	-1.6	-23.6#	5.0#	-11.0#	-5.9	-0.2	7.7#	-12.7*	-12.3#	-1.9	2.4	-7.4	8.2	15.6#
STD ERR OF DP		2.1	2.3	2.5	2.3	1.2	1.1	1.8	0.7	3.6	6.2	2.2	1.8	5.1	4.2	2.0	2.4	4.4	4.1	3.3
P-VALUE	41.8	34.2	43.7	42.1	47.2	43.5	40.2	18.3	46.8	30.8	35.9	41.6	49.6	29.1	29.5	39.9	44.2	34.4	50.0	57.4
STD ERR OF P	1.3	2.1	2.6	3.2	2.6	1.8	1.7	2.1	1.3	4.0	6.4	2.5	2.1	5.2	4.2	2.2	2.6	4.6	4.5	3.2
RESPONSE: 03 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	11.1	1.5	1.3	-1.2	-1.3	-1.7#	1.6#	4.1	-1.1#	-3.0	3.0	0.0	-4.7#	3.0	1.2	1.6	0.5	0.7	-3.0	-5.1#
STD ERR OF DP		1.6	1.6	1.7	1.7	0.6	0.5	2.1	0.4	2.3	4.2	1.7	0.9	3.1	[illegible]	1.5	2.6	2.6	2.2	1.6
STD ERR OF P	1.0	1.7	1.8	2.1	2.0	1.2	1.1	2.4	1.0	2.3	4.4	2.1	1.1	3.4	[illegible]	1.9	2.8	2.7	2.3	[illegible]

Report #: UE04

NAEP #: E11009-1

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 07-03
National P-value:
UE04 35.97

Timing: (in seconds)
UE04 Exercise total: 38

EXERCISE: UE04

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.9	1.9*	0.2	-0.6	-1.3	0.4	-0.4	4.7#	-1.2#	4.4	2.7	-1.4*	-1.9#	4.9#	2.3	-0.6	-1.8#	1.4	-1.6#	-0.4
STD ERR OF DP		0.9	1.0	0.7	0.7	0.4	0.4	1.5	0.3	2.4	1.9	0.6	0.5	1.5	2.4	0.6	0.7	1.6	0.6	0.9
STD ERR OF P	0.5	1.1	1.2	0.8	0.7	0.7	0.5	1.7	0.4	2.5	2.1	0.6	0.4	1.5	2.6	0.6	0.6	1.8	0.6	1.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	36.0	-12.2#	3.0	5.4*	2.7	4.7#	-4.7#	-22.9#	4.5#	-7.0	-10.6*	3.5	13.7#	-20.6#	-10.4#	0.7	-2.8	0.7	2.8	15.4#
STD ERR OF DP		2.5	2.9	2.5	3.0	1.0	1.0	1.7	0.6	4.3	5.0	2.5	1.8	3.1	4.0	2.1	3.7	4.9	3.7	4.3
P-VALUE	36.0	23.8	39.0	41.3	38.7	40.6	31.3	13.1	40.4	29.0	25.3	39.4	49.6	15.4	25.6	36.7	33.2	36.7	38.8	51.3
STD ERR OF P	1.7	2.8	3.1	2.9	3.6	2.1	1.8	1.7	1.6	4.4	5.1	3.1	2.6	3.0	4.1	2.3	3.8	5.3	4.1	4.7
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	11.7	2.9	1.2	-2.7*	-0.8	-1.6*	1.6*	4.8*	-1.0*	5.6	2.5	-5.2#	-4.3#	4.0	5.4	-1.2	3.1	-0.7	-0.0	-5.2#
STD ERR OF DP		1.5	1.8	1.2	1.7	0.7	0.7	2.0	0.4	5.0	4.3	1.4	1.1	2.5	3.9	1.1	2.4	2.0	2.9	1.8
STD ERR OF P	0.9	1.8	2.0	1.3	2.1	1.1	1.2	2.0	1.0	5.4	4.4	1.2	1.0	2.5	4.3	1.1	2.6	2.0	3.3	1.8

Report #: UE05

NAEP #: E11026-1

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		9
Package-Exercise:		08-03
National P-value:		
	UE05A-C	96.37
	UE05D	79.96
	UE05E	89.57
	UE05F	73.53
	UE05G	73.51

Timing: No paced tape was used in this individually administered exercise.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
EXERCISE: UE05																				
This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.																				
Part A-C.																				
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	96.4	-1.4	-2.0#	0.8	2.4#	0.2	-0.2	-4.8#	1.0#	-3.1	1.4	-0.1	0.5	-3.6*	-1.7	0.4	0.8	-1.8	2.0#	0.9
STD ERR OF DP		0.8	0.8	0.6	0.5	0.5	0.5	1.2	0.3	2.3	1.3	0.7	0.5	1.5	1.8	0.6	1.2	1.4	0.7	1.4
P-VALUE	96.4	95.0	94.3	97.1	98.7	96.6	96.2	91.6	97.3	93.3	97.7	96.3	96.9	92.8	94.7	96.8	97.2	94.5	98.3	97.2
STD ERR OF P	0.4	1.0	1.0	0.6	0.5	0.6	0.6	1.3	0.4	2.3	1.4	0.9	0.6	1.6	1.8	0.8	1.3	1.5	0.7	1.4
EXERCISE: UE05																				
Part D.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.6	-0.1	-0.2	0.3	0.0	-0.1	0.1	-0.3	0.1	-0.6#	-0.6#	-0.0	-0.5#	0.5	0.4	-0.1	-0.2	-0.3	0.7	-0.6#
STD ERR OF DP		0.3	0.2	0.3	0.4	0.2	0.2	0.2	0.1	0.2	0.2	0.3	0.2	0.7	0.7	0.2	0.3	0.3	0.9	0.2
STD ERR OF P	0.2	0.3	0.2	0.4	0.5	0.3	0.2	0.2	0.2	0.0	0.0	0.3	0.1	0.7	0.7	0.2	0.3	0.3	1.0	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	80.0	-6.5#	-0.3	2.4	3.8	1.0	-1.0	-20.1#	3.9#	-9.9	-7.8	0.9	5.1#	-17.3#	-7.3	0.1	1.5	-0.3	4.5	9.8#
STD ERR OF DP		2.3	2.3	1.7	2.1	0.9	1.0	3.0	0.7	5.2	4.7	1.5	1.0	3.6	4.1	1.4	2.1	3.1	2.6	2.4
P-VALUE	80.0	73.8	79.6	82.4	83.7	80.9	78.9	59.9	83.9	70.1	72.1	80.8	85.0	62.7	72.7	80.1	81.4	79.7	84.4	89.8
STD ERR OF P	1.2	2.7	2.7	1.8	2.4	1.7	1.4	3.4	1.2	5.4	5.2	2.0	1.3	3.7	4.5	1.7	2.4	3.5	2.7	2.7
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	2.2	1.1	-0.0	0.2	-1.2*	-0.3	0.3	1.1	-0.2	-1.6*	-0.8	0.2	-0.3	1.8	1.0	-0.1	-0.9	-0.1	-0.2	-0.4
STD ERR OF DP		0.7	0.6	0.7	0.5	0.3	0.4	0.7	0.2	0.7	1.2	0.6	0.4	0.9	1.4	0.5	0.6	0.8	0.8	0.9
STD ERR OF P	0.4	0.7	0.7	0.9	0.5	0.5	0.5	0.9	0.4	0.6	1.3	0.7	0.5	1.0	1.5	0.6	0.7	0.9	1.0	1.1
EXERCISE: UE05																				
Part E.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
Response did not occur at this age.																				
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	89.6	-2.5*	-1.7	0.0	3.8#	0.4	-0.5	-12.5#	2.4#	-8.5*	-2.6	1.3	2.1*	-9.1#	-4.4	-0.4	2.8	-1.5	1.9	6.0#
STD ERR OF DP		1.2	1.5	1.2	1.1	0.7	0.7	2.0	0.5	3.7	3.2	1.1	0.9	2.7	2.4	1.1	1.7	1.9	1.7	1.5
P-VALUE	89.6	87.1	87.9	89.6	93.4	90.0	89.1	77.1	92.0	81.1	86.9	90.9	91.6	80.5	85.1	89.2	92.3	88.1	91.4	95.6
STD ERR OF P	0.7	1.3	1.9	1.4	1.1	1.0	1.0	2.3	0.7	3.8	3.4	1.3	1.0	3.0	2.4	1.3	1.8	2.1	1.6	1.5
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	0.1	-0.1	-0.1	0.2	0.0	-0.0	0.0	-0.1	0.0	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1	0.2	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.2	0.1	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.3	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0
EXERCISE: UE05																				
Part F.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.7	-0.4	-0.2	0.4	0.1	-0.2	0.2	-0.5*	-0.0	0.9	0.5	-0.2	-0.4*	0.2	1.3	-0.1	-0.7#	-0.4	0.5	-0.2
STD ERR OF DP		0.3	0.3	0.4	0.4	0.2	0.2	0.2	0.1	1.4	0.9	0.3	0.2	0.7	1.1	0.2	0.2	0.3	0.8	0.5
STD ERR OF P	0.2	0.2	0.3	0.5	0.5	0.3	0.3	0.1	0.3	1.5	0.8	0.3	0.2	0.7	1.2	0.2	0.0	0.3	0.9	0.5
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	73.5	-8.3#	-1.4	1.2	7.8#	0.7	-0.7	-21.6#	5.0#	-19.5#	-6.6	0.1	7.4#	-17.5#	-11.2*	-0.5	1.3	-5.2	7.2#	15.7#
STD ERR OF DP		2.7	2.0	2.1	1.7	1.1	1.1	2.8	0.8	4.4	4.3	1.8	1.1	3.4	4.7	1.7	2.5	3.2	2.8	2.3
P-VALUE	73.5	65.2	72.2	74.7	81.3	74.2	72.8	51.9	78.6	54.0	67.0	73.6	81.0	56.1	62.3	73.0	74.8	68.3	80.7	89.2
STD ERR OF P	1.3	3.2	2.9	2.5	1.6	1.7	1.6	3.3	1.2	4.7	4.4	2.3	1.6	3.7	5.0	1.9	2.8	3.6	2.9	2.3

EXERCISE: UE05

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

Part F.

RESPONSE: 03 AGE: 9 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.6	1.0	-0.5	-0.1	-0.4	0.0	-0.0	-0.2	0.1	-1.6#	1.8	-0.6	-0.4	-0.5	0.7	-0.1	0.7	1.1	-0.7	-0.8
STD ERR OF DP		0.7	0.5	0.5	0.5	0.3	0.3	0.7	0.1	0.3	2.1	0.5	0.3	0.9	1.4	0.4	0.8	1.3	0.7	0.6
STD ERR OF P	0.3	0.8	0.5	0.6	0.5	0.4	0.5	0.7	0.4	0.0	2.1	0.5	0.4	0.9	1.6	0.5	0.8	1.4	0.7	0.6

EXERCISE: UE05

Part G.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.5	0.6	-0.3	0.2	-0.5*	-0.2	0.2	-0.0	-0.1	-0.5*	1.5	0.1	-0.5*	0.2	1.3	0.3	-0.2	-0.5*	-0.5*	-0.5*
STD ERR OF DP		0.5	0.2	0.4	0.2	0.2	0.2	0.4	0.1	0.2	1.8	0.2	0.2	0.6	1.3	0.4	0.3	0.2	0.2	0.2
STD ERR OF P	0.2	0.6	0.2	0.6	0.0	0.2	0.3	0.4	0.2	0.0	1.9	0.3	0.0	0.7	1.4	0.5	0.3	0.0	0.0	0.0

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	73.5	-8.2#	-2.3	2.9	6.7#	0.4	-0.5	-26.5#	5.8#	-14.6#	-11.0#	-0.5	8.0#	-20.8#	-11.4#	1.5	0.3	-4.2	6.9#	13.4#
STD ERR OF DP		2.6	2.6	2.3	1.9	1.1	1.2	3.1	0.8	4.8	4.3	1.8	1.1	3.9	3.7	1.5	2.8	3.1	2.6	2.1
P-VALUE	73.5	65.3	71.2	76.4	80.2	74.0	73.1	47.0	79.3	58.9	62.6	73.0	81.5	52.7	62.1	75.0	73.8	69.3	80.4	86.9
STD ERR OF P	1.4	3.0	3.0	2.7	1.9	1.9	1.6	3.5	1.1	5.1	4.3	2.1	1.7	4.1	4.0	1.9	3.2	3.4	2.7	2.1

RESPONSE: 03 AGE: 9 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.1	-0.1	-0.6	0.1	0.5	-0.0	0.0	0.1	0.0	-1.1#	-0.5	0.4	-0.5	-0.0	0.2	-0.3	0.2	1.7	-0.5	-0.5
STD ERR OF DP		0.4	0.3	0.4	0.5	0.2	0.2	0.5	0.1	0.3	0.6	0.6	0.3	0.9	0.9	0.4	0.5	1.1	0.7	0.6
STD ERR OF P	0.2	0.5	0.3	0.5	0.7	0.3	0.4	0.5	0.3	0.0	0.6	0.7	0.3	0.9	1.0	0.5	0.6	1.2	0.7	0.6

Report #: UE06

NAEP #: M12002-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		03-01	01-23	01-04
National P-value:				
	UE06	37.11	53.83	84.50

		13	17	Adult
Timing: (in seconds)				
UE06	Exercise total:	41	41	*

*Time not limited by paced tape.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: UE06

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective I.

RESPONSE: 00 AGE: 13 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.0	-0.0	-0.0	-0.0	0.1	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.3	-0.0	-0.0
STD ERR OF DP		0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
STD ERR OF P	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
AGE: 17																				
DELTA-P	0.3	-0.3	-0.2	-0.0	0.4	0.2*	-0.2*	1.0	-0.2	-0.3	0.3	-0.3	-0.3	1.9	-0.3	-0.3	-0.3	-0.3	0.5	-0.3
STD ERR OF DP		0.1	0.2	0.2	0.4	0.1	0.1	0.7	0.1	0.1	0.6	0.1	0.1	1.4	0.1	0.1	0.1	0.1	0.5	0.1
STD ERR OF P	0.1	0.0	0.1	0.3	0.5	0.3	0.1	0.8	0.1	0.0	0.6	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.5	0.0

AGE: Ad

Response did not occur at this age.

RESPONSE: 02* AGE: 13 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	37.1	-7.6**	-5.5	0.9	11.6**	2.0	-1.8	-8.2**	1.8**	-7.1*	-7.5*	-1.6	7.8**	-9.1*	1.9	-2.4	9.1**	0.2	-5.7	7.6*
STD ERR OF DP		2.5	2.9	2.4	2.2	1.2	1.1	3.0	0.6	3.4	3.3	1.5	1.5	4.4	4.8	1.9	3.5	5.1	4.9	3.2
P-VALUE	37.1	29.5	31.6	38.0	48.7	39.1	35.3	28.9	38.9	30.0	29.6	35.5	44.9	28.0	39.0	34.7	46.2	37.3	31.4	44.7
STD ERR OF P	1.5	2.7	3.6	2.7	2.3	1.9	1.9	3.1	1.7	3.7	3.3	2.1	2.2	4.0	4.7	2.4	3.9	5.5	5.3	3.1
AGE: 17																				
DELTA-P	53.8	-6.1	3.6	-1.5	2.6	9.0**	-8.6**	-19.4**	2.6**	-13.4**	-15.0**	-5.8**	11.9**	-14.9**	-14.4**	-0.9	8.4	2.3	-2.6	12.6**
STD ERR OF DP		3.3	3.4	2.7	3.1	1.6	1.7	4.0	0.7	4.1	3.2	2.0	1.5	4.5	4.[illegible]	2.3	4.4	4.7	3.7	3.8
P-VALUE	53.8	47.7	57.5	52.3	56.5	62.8	45.2	34.5	56.4	40.5	38.8	48.1	65.7	39.0	39.4	53.0	62.2	56.2	51.3	66.5
STD ERR OF P	1.8	3.6	4.3	2.9	3.6	2.5	2.4	3.7	2.0	4.2	3.3	2.6	2.2	4.3	4.5	3.0	4.4	4.7	4.4	3.7
AGE: Ad																				
DELTA-P	44.5	-8.1**	5.8*	-3.0	4.5	12.3**	-11.4**	-19.4**	1.8**	-11.4**	-5.0	-0.7	19.0**	-9.3*	-4.0	-5.0**	0.2	7.3	6.7	14.0**
STD ERR OF DP		2.5	2.8	2.4	2.9	1.3	1.2	3.7	0.7	2.3	3.1	2.3	2.3	4.0	4.7	1.6	3.2	5.6	4.7	3.7
P-VALUE	44.5	36.5	50.3	41.5	49.0	56.8	33.1	25.1	46.3	33.1	39.5	43.8	63.5	35.2	40.5	39.5	44.7	51.8	51.2	58.5
STD ERR OF P	1.6	2.6	3.3	2.9	3.4	2.0	1.9	3.5	1.7	2.8	3.5	2.7	2.7	4.2	5.0	2.5	3.5	5.6	5.1	3.6

RESPONSE: 09 AGE: 13 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	6.6	-0.8	2.0	-0.4	-1.0	-1.3**	1.2**	2.7	-0.5	4.6*	0.4	-0.9	-1.2*	5.0**	0.3	-1.1	-1.3	-0.9	4.1	-2.7
STD ERR OF DP		1.0	1.5	1.1	1.2	0.5	0.4	1.5	0.3	2.0	1.5	0.6	0.6	2.2	2.3	0.9	2.0	1.5	2.8	1.5
STD ERR OF P	0.7	1.0	1.8	1.3	1.4	0.7	1.0	1.6	0.8	2.1	1.8	0.8	0.9	2.2	2.3	1.0	2.0	1.6	3.1	1.7
AGE: 17																				
DELTA-P	3.1	-0.3	0.7	0.6	-1.0	-0.2	0.1	3.6	-0.8*	7.0	-0.8	1.1	-1.8**	1.1	5.2	-1.0	-0.9	1.2	1.6	-1.9*
STD ERR OF DP		0.8	0.9	1.1	0.8	0.5	0.5	1.8	0.3	4.0	1.0	0.8	0.5	1.4	4.3	0.6	1.0	1.9	1.7	0.8
STD ERR OF P	0.5	0.7	1.1	1.4	0.8	0.9	0.6	2.0	0.5	4.3	1.0	1.0	0.5	1.4	4.6	0.5	1.0	2.1	1.9	0.7
AGE: Ad																				
DELTA-P	14.9	2.1	-3.8	4.4*	-3.1	-7.2**	6.7**	2.0	-0.1	5.8**	-0.2	0.7	-8.7**	1.2	2.7	0.5	-1.5	0.3	1.8	-5.0
STD ERR OF DP		2.2	2.1	2.0	2.0	1.0	0.9	2.9	0.5	1.6	2.1	1.8	1.1	3.2	3.4	1.3	2.3	3.9	4.8	2.6
STD ERR OF P	1.2	2.5	2.5	2.4	2.1	1.2	1.8	3.0	1.3	2.2	2.6	1.8	1.3	3.3	3.7	1.5	2.4	3.9	5.4	2.9

Report #: UE07

NAEP #: E12006-12

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		01-22	06-29
National P-value:			
	UE07	10.77	63.80

Timing: (in seconds)
UE07 Exercise total: 32 30

1066

EXERCISE: UE07

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLAC[illegible]	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	6.5	-0.5	0.1	0.8	-0.5	1.8*	-1.8*	0.4	-0.9*	2.7	-1.3	-2.4*	-1.9*	12.7	-1.7	0.3	-1.1	1.4	-3.5*	-2.7
STD ERR OF DP		1.5	1.8	1.3	1.2	0.6	0.6	1.6	0.4	2.2	2.2	0.9	0.8	7.1	2.0	1.3	1.9	1.9	1.4	1.4
STD ERR OF P	0.8	1.7	2.2	1.5	1.2	1.2	0.7	1.6	0.8	2.6	2.1	0.9	1.0	7.6	1.9	1.5	2.0	2.0	1.1	1.3
AGE: 13																				
DELTA-P	4.2	-2.1*	3.6	0.6	-2.5*	0.3	-0.2	9.9*	-1.4	-1.1	0.9	0.9	-2.2*	10.3	-0.0	-3.3*	-0.1	2.5	3.9	-2.7*
STD ERR OF DP		1.0	2.5	1.3	1.0	0.4	0.4	4.6	0.7	1.8	1.5	1.0	0.5	10.5	1.2	0.9	1.6	2.7	4.0	1.3
STD ERR OF P	0.9	0.6	3.2	1.4	0.6	1.1	0.9	5.2	0.7	1.7	1.6	1.2	0.8	11.1	0.7	0.4	1.5	3.0	4.2	1.1
RESPONSE: 10* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	10.8	-4.8*	1.0	1.1	2.1	1.6	-1.6	-7.9*	1.6*	-3.7	-1.1	0.3	5.2*	-8.4*	-1.2	-0.7	-3.3	-3.5*	5.4*	8.2*
STD ERR OF DP		0.9	1.5	1.3	1.5	0.9	0.9	1.0	0.3	2.4	2.5	1.7	1.7	1.4	3.1	1.2	1.8	1.5	2.6	2.4
P-VALUE	10.8	6.0	11.8	11.9	12.9	12.4	9.1	2.9	12.4	7.1	9.7	11.1	16.0	2.4	9.6	10.1	7.5	7.3	16.2	19.0
STD ERR OF P	0.8	0.7	1.8	1.5	1.8	1.3	1.0	0.7	0.9	2.4	2.5	1.8	2.0	1.1	3.3	1.3	1.8	1.4	2.9	2.6
AGE: 13																				
DELTA-P	63.8	-6.0	-7.0*	2.9	9.5*	1.7	-1.6	-32.8*	5.5*	-7.3	-10.8*	-1.0	10.1*	-24.8*	-4.1	2.9	-5.0	-7.1	5.1	14.3*
STD ERR OF DP		3.2	2.8	2.4	2.3	1.6	1.5	3.5	0.7	6.2	3.5	2.0	1.6	6.5	3.8	2.1	3.7	4.9	4.1	2.5
P-VALUE	63.8	57.8	56.8	66.7	73.3	65.5	62.2	31.0	69.3	56.5	53.0	62.8	73.9	39.0	59.7	66.7	58.8	56.7	68.9	78.1
STD ERR OF P	1.5	3.7	3.4	2.8	2.5	1.9	2.3	3.5	1.6	6.5	3.9	2.6	2.0	6.7	4.0	2.6	4.0	5.1	4.4	2.1
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	37.6	-2.5	4.8*	-2.4	-0.1	-5.3*	5.4*	-7.1*	1.0	-0.2	-5.9	-4.4	-3.5	-9.7*	1.6	-2.0	1.2	7.4	0.1	0.8
STD ERR OF DP		2.6	2.1	2.2	2.2	1.1	1.1	2.8	0.7	4.8	5.0	2.4	2.3	3.4	6.7	2.1	3.7	4.2	3.0	3.2
STD ERR OF P	1.3	3.0	2.4	2.5	2.5	1.8	1.7	2.9	1.6	5.2	5.0	2.5	2.7	3.4	7.0	2.1	4.0	4.6	3.2	3.5
AGE: 13																				
DELTA-P	10.1	0.7	1.5	0.1	-2.4	-2.5*	2.4*	6.7*	-1.3*	3.1	3.2	0.8	-3.8*	3.8	-2.0	0.6	1.7	1.4	-1.0	-3.6*
STD ERR OF DP		1.8	1.5	1.2	1.2	0.8	0.8	2.5	0.4	3.1	2.2	1.0	0.8	2.7	2.5	1.3	2.0	2.4	1.9	1.4
STD ERR OF P	0.8	2.1	1.7	1.4	1.3	1.0	1.3	2.6	0.9	3.3	2.5	1.4	0.9	2.7	2.7	1.7	2.2	2.4	2.0	1.3

Report #: UE08

NAEP #: E12009-34

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		09-12	05-14
National P-value:			
	UE08	57.24	46.36
Timing: (in seconds)			
UE08	Exercise total:	25	*

*Time not limited by paced tape.

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                                NATION |            REGION               |      SEX       |     RACE      |     PARENTAL EDUCATION        |            SIZE-AND-TYPE OF COMMUNITY
                                       | SOUTH                     NORTH  |                |               |          SOME    GRAD    POST | LOW   EXTREME SMALL  MEDIUM  MAIN   URBAN   HIGH
                                       |  EAST   WEST  CENTRAL   EAST  |  MALE  FEMALE  | BLACK  WHITE  | NO HS    HS      HS      HS  | METRO  RURAL  PLACES  CITY  BIG CTY FRINGE METRO

EXERCISE: U808

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective I.


RESPONSE:  00     AGE: 17        TEXT:  No Response.

    DELTA-P                      0.2      0.1   -0.2   -0.2    0.2     -0.0    0.0      0.2   -0.1      0.3   -0.2    0.1   -0.2      0.0   -0.2    0.0   -0.2    0.8   -0.2   -0.2
    STD ERR OF DP                         0.2    0.1    0.1    0.3      0.1    0.1      0.2    0.1      0.4    0.1    0.1    0.1      0.1    0.1    0.2    0.1    0.9    0.1    0.1
    STD ERR OF P                 0.1      0.2    0.0    0.0    0.4      0.1    0.2      0.3    0.1      0.5    0.0    0.2    0.0      0.2    0.0    0.2    0.0    1.0    0.0    0.0

                  AGE: Ad

    DELTA-P                      0.2      0.6   -0.2   -0.2   -0.1     -0.2    0.1      1.5   -0.2      0.5   -0.2   -0.2   -0.1     -0.2   -0.2    0.3   -0.2   -0.2   -0.2    0.0
    STD ERR OF DP                         0.7    0.2    0.2    0.2      0.2    0.2      1.5    0.2      0.5    0.2    0.2    0.2      0.2    0.2    0.3    0.2    0.2    0.2    0.3
    STD ERR OF P                 0.2      0.8    0.0    0.0    0.1      0.1    0.3      1.6    0.0      0.7    0.0    0.0    0.1      0.0    0.0    0.5    0.0    0.0    0.0    0.2

RESPONSE:  04*    AGE: 17        TEXT:  All Acceptable Responses.

    DELTA-P                     57.2     -5.0   -2.8   -2.0    8.5#    13.0# -12.0#   -23.0#   4.8#   -22.4# -14.1#  -1.3   10.6#   -21.1#   1.4    2.3   -4.5   -0.5    3.1   10.5*
    STD ERR OF DP                         3.0    3.1    3.3    2.5      1.1    1.1      3.0    0.6      3.8    3.1    2.0    1.4      3.5    5.7    2.3    4.9    4.6    3.6    4.4
    P-VALUE                     57.2     52.3   54.5   55.3   65.8     70.2   45.2     34.2   62.0     34.9   43.2   56.0   67.8     36.1   58.6   59.5   52.7   56.7   60.4   67.7
    STD ERR OF P                 1.8      3.1    3.5    4.3    2.6      1.9    2.1      2.9    1.9      4.1    3.4    2.7    2.1      3.4    5.7    2.6    5.5    4.9    3.6    4.9

                  AGE: Ad

    DELTA-P                     46.4     -6.2*   4.4*  -1.8    2.7     17.7# -16.5#   -17.7#   1.7*   -12.5#  -4.3    4.9*  12.6#   -12.0#  -6.2   -3.5    8.3    1.4   -1.0   15.2#
    STD ERR OF DP                         3.0    2.1    2.3    2.6      1.3    1.2      4.2    0.7      1.8    3.3    2.0    2.3      3.7    5.9    1.9    4.6    5.0    3.2    3.8
    P-VALUE                     46.4     40.2   50.7   44.6   49.1     64.1   29.9     28.6   48.1     33.9   42.1   51.3   58.9     34.3   40.2   42.9   54.7   47.8   45.4   61.6
    STD ERR OF P                 1.4      3.5    2.2    2.8    3.1      1.7    1.8      4.1    1.6      2.2    3.5    2.5    2.8      3.7    6.1    2.3    5.1    5.3    3.2    3.9

RESPONSE:  09     AGE: 17        TEXT:  I Don't Know.

    DELTA-P                      9.9      3.2    1.3   -0.2   -3.5#    -4.5#   4.2#     6.3#  -1.2#     7.7#   6.8#  -0.9   -3.3#     3.6   -0.3   -0.9    1.9   -2.3    1.5   -2.2
    STD ERR OF DP                         1.8    1.7    1.4    1.3      0.8    0.8      1.8    0.3      2.6    2.3    1.1    0.9      1.9    3.1    1.2    2.0    1.8    2.4    1.9
    STD ERR OF P                 0.9      2.0    2.1    1.7    1.3      0.7    1.5      1.9    0.9      2.9    2.5    1.4    1.0      2.1    3.3    1.3    2.0    1.8    2.8    2.1

                  AGE: Ad

    DELTA-P                     15.7      3.9   -1.4    0.8   -2.7     -8.3#   7.7#     5.1   -0.8      3.3*   1.9   -1.0   -5.7#     4.7   -0.4    2.3   -1.0    1.0   -3.7   -6.6#
    STD ERR OF DP                         2.2    2.0    2.0    1.8      1.0    0.8      3.9    0.6      1.7    2.3    1.4    1.6      3.3    2.8    1.6    2.9    4.9    2.2    2.1
    STD ERR OF P                 1.2      2.5    2.2    2.4    2.1      1.1    1.7      4.3    1.2      2.1    2.6    2.0    1.5      3.3    2.8    2.1    3.1    5.3    2.2    2.3
```

Report #: 0E09

NAEP #: E12012-1

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social,
Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9
Package-Exercise:		05-20
National P-value:		
	0E09	39.42

Timing: (in seconds)
0E09 Exercise total: 25

EXERCISE: UE09

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.4	0.3	0.1	-0.5	0.1	0.8*	-0.8*	1.7#	-0.6#	0.1	-1.5#	0.4	-0.9*	1.5	3.3	-0.6	-1.4#	0.6	-0.9*	-0.3
STD ERR OF DP		0.5	0.6	0.4	0.5	0.3	0.3	0.6	0.2	1.2	0.3	0.7	0.4	0.8	2.0	0.3	0.3	0.7	0.4	0.6
STD ERR OF P	0.3	0.6	0.8	0.5	0.5	0.6	0.2	0.7	0.2	1.2	0.0	0.8	0.3	0.8	2.2	0.3	0.1	0.7	0.4	0.7
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	39.4	-5.9*	-1.0	6.4#	0.4	3.2*	-3.2*	-24.6#	5.8#	-8.0*	-5.9	-2.2	6.7#	-18.5#	-5.4	-2.7	3.4	1.9	11.5#	8.2*
STD ERR OF DP		2.9	2.8	2.4	2.9	1.3	1.3	3.0	0.8	3.7	7.1	2.1	1.8	5.3	5.4	2.1	4.2	5.2	4.2	3.7
P-VALUE	39.4	33.5	38.4	45.8	39.8	42.6	36.3	14.8	45.2	31.5	33.6	37.3	46.2	20.9	34.1	36.7	42.9	41.3	51.0	47.6
STD ERR OF P	1.6	3.3	3.3	2.6	3.4	2.2	1.9	2.9	1.7	3.9	7.2	2.3	2.5	5.5	5.7	2.3	4.8	5.4	4.4	3.8
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	11.0	-0.2	-0.3	-0.7	1.3	-1.8#	1.8#	8.8#	-2.4#	-0.9	7.3	-1.7	-5.0#	4.9	0.3	0.7	-0.9	2.6	-3.3	-4.4*
STD ERR OF DP		1.3	1.6	1.5	2.0	0.7	0.7	2.2	0.7	2.6	4.0	1.6	0.9	3.4	2.6	1.1	2.0	2.9	2.3	1.8
STD ERR OF P	0.9	1.2	1.9	1.8	2.4	1.0	1.3	2.5	0.9	2.7	4.3	1.8	1.0	3.7	2.7	1.2	2.0	3.2	2.4	2.0

Report #: UE10

NAEP #: E12017-3A

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		17	Adult
Package-Exercise:		13-06	08-11
National P-value:			
	UE10	60.44	63.69

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UE10

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.6	0.7	-0.3	-0.3	-0.0	-0.1	0.1	-0.3	0.0	0.2	0.3	0.0	-0.1	-0.2	1.1	0.3	0.3	-0.6#	-0.6#	-0.6#
STD ERR OF DP		0.5	0.2	0.2	0.4	0.2	0.2	0.2	0.1	0.5	0.6	0.2	0.2	0.3	0.8	0.3	0.5	0.2	0.2	0.2
STD ERR OF P	0.2	0.6	0.1	0.2	0.5	0.3	0.3	0.2	0.2	0.5	0.6	0.3	0.3	0.3	0.9	0.4	0.6	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.3	0.3	-0.1	-0.0	-0.2	-0.1	0.1	0.3	-0.0	0.0	-0.3*	0.1	-0.1	-0.3*	-0.3*	0.1	0.1	-0.3*	0.3	-0.3*
STD ERR OF DP		0.4	0.2	0.2	0.2	0.1	0.1	0.5	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.3	0.1	0.6	0.1
STD ERR OF P	0.1	0.4	0.2	0.3	0.1	0.2	0.2	0.6	0.1	0.3	0.0	0.3	0.2	0.0	0.0	0.3	0.4	0.0	0.6	0.0
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	60.4	-3.0	0.9	5.9*	-5.0	5.6#	-5.3#	-20.3#	3.9#	-9.3	-13.9#	-0.4	7.4#	-16.5#	0.0	4.9#	2.9	-7.8	1.9	-0.1
STD ERR OF DP		2.3	2.7	2.5	3.4	1.2	1.1	3.0	0.7	5.3	3.6	2.0	1.7	4.4	4.8	1.7	3.0	4.4	3.7	5.5
P-VALUE	60.4	57.4	61.4	66.4	55.5	66.0	55.1	40.2	64.4	51.2	46.5	60.0	67.8	44.0	60.4	65.3	63.3	52.6	62.3	60.3
STD ERR OF P	1.6	2.2	2.9	3.0	4.2	1.8	2.1	2.9	1.8	5.6	3.9	2.7	2.2	4.4	5.0	2.1	3.2	4.7	4.1	6.1
AGE: Ad																				
DELTA-P	63.7	-2.2	0.9	0.6	0.3	7.9#	-7.4#	-19.4#	3.5#	-9.6#	1.6	2.4	8.2#	-10.2#	-7.2	2.4	7.4*	-5.3	0.4	0.8
STD ERR OF DP		4.0	3.0	2.4	3.2	1.5	1.4	4.2	0.6	2.5	3.2	1.7	1.8	4.0	4.0	2.1	3.6	4.8	4.4	4.8
P-VALUE	63.7	61.5	64.6	64.3	64.0	71.6	56.3	44.3	67.2	54.1	65.3	66.1	71.9	53.5	56.5	66.1	71.0	58.4	64.1	64.4
STD ERR OF P	1.8	4.7	3.6	2.4	3.7	2.6	1.9	4.4	1.9	3.5	3.3	2.4	2.2	4.1	4.3	3.3	3.9	4.7	4.6	4.8
RESPONSE: 03 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	10.5	-0.7	0.4	-1.7	2.1	-4.5#	4.3#	5.8*	-1.1*	1.1	3.8	2.1	-3.4#	7.0*	-3.1	-1.1	1.5	2.5	1.6	-6.1#
STD ERR OF DP		1.6	1.5	1.0	1.4	0.6	0.6	2.5	0.5	2.3	1.9	1.1	0.9	2.9	2.0	1.1	1.4	2.2	2.2	1.1
STD ERR OF P	0.8	1.8	1.7	0.9	1.8	0.7	1.2	2.8	0.8	2.4	2.4	1.4	1.0	3.0	2.1	1.5	1.5	2.3	2.3	0.8
AGE: Ad																				
DELTA-P	6.8	-1.6	1.1	1.0	-1.0	-4.5#	4.2#	4.8	-0.6	3.3	-2.4*	-1.3	-1.6	3.3	1.6	-1.2	-1.6	1.4	-0.8	1.6
STD ERR OF DP		1.1	1.2	1.5	1.2	0.7	0.6	2.5	0.3	1.9	1.0	1.2	0.9	2.1	2.3	1.0	1.3	2.5	1.6	3.0
STD ERR OF P	0.8	1.1	1.4	1.9	1.3	0.6	1.2	2.6	0.9	2.3	1.0	1.2	1.1	2.1	2.4	1.2	1.3	2.8	1.7	3.2

Report #: UE11

NAEP #: E12018-12

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		9	13
Package-Exercise:		09-10	12-08
National P-value:			
	UE11A	14.46	53.90
	UE11B	60.17	82.97
	UE11C	84.19	92.61
	UE11D	1.46	24.56
	UE11E	81.53	90.88
	UE11F	47.47	72.58
	UE11I	17.86	42.68
	UE11K	16.11	39.43

Timing: No paced tape was used in this individually administered exercise.

1078

EXERCISE: UR11

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

Part A.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	5.3	-0.0	-0.7	-0.3	0.9	-0.7	0.8	3.8*	-0.9#	1.0	3.3	-0.5	-1.5	1.4	3.7#	-1.2	0.8	-0.0	-2.6	1.3
STD ERR OF DP		1.0	1.1	1.0	1.2	0.5	0.5	1.7	0.3	2.0	2.9	0.9	0.8	2.0	1.4	0.8	1.8	1.7	1.4	2.4
STD ERR OF P	0.6	1.1	1.2	1.2	1.5	0.8	0.9	1.8	0.7	2.2	3.1	1.1	1.0	2.1	1.5	1.0	2.0	1.7	1.4	2.6
AGE: 13																				
DELTA-P	0.8	0.5	-0.6*	0.4	-0.3	-0.3	0.3	0.6	-0.1	0.7	0.6	0.4	-0.8#	-0.3	1.1	-0.3	0.9	0.5	-0.8#	-0.6*
STD ERR OF DP		0.5	0.3	0.4	0.3	0.2	0.2	0.6	0.1	1.1	0.6	0.3	0.2	0.4	0.8	0.3	0.9	0.8	0.2	0.2
STD ERR OF P	0.2	0.7	0.2	0.5	0.3	0.2	0.4	0.6	0.3	1.1	0.6	0.5	0.0	0.4	0.8	0.4	1.0	0.8	0.0	0.2
RESPONSE: 01* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	14.5	-9.4#	2.9	2.9	3.0	3.9#	-4.1#	-13.2#	2.8#	-10.6#	-3.5	-3.6#	8.2#	-11.7#	1.8	-2.4	2.5	-4.7	-2.3	17.1#
STD ERR OF DP		1.2	2.1	1.9	2.1	0.7	0.8	1.3	0.4	2.0	4.5	1.3	1.3	1.8	3.3	1.3	2.9	2.6	2.3	4.1
P-VALUE	14.5	5.1	17.4	17.4	17.5	18.4	10.4	1.2	17.3	3.9	11.0	10.9	22.7	2.7	16.3	12.1	16.9	9.8	12.2	31.5
STD ERR OF P	1.1	0.8	2.3	2.4	2.5	1.4	1.2	0.6	1.4	1.7	4.5	1.6	2.0	1.6	3.6	1.5	3.2	2.6	2.4	4.6
AGE: 13																				
DELTA-P	53.9	-9.5#	0.4	3.5	4.3	5.3#	-5.1#	-34.0#	6.6#	-22.3#	-26.0#	1.2	14.0#	-26.9#	-2.0	1.9	0.6	-7.8	3.6	14.3#
STD ERR OF DP		3.0	[illegible]	3.9	2.7	1.3	1.3	3.2	0.7	4.4	3.7	1.6	1.5	5.4	9.4	2.9	4.1	4.1	4.4	4.7
P-VALUE	53.9	44.4	54.3	57.4	58.2	59.2	48.8	19.9	60.5	31.6	27.9	55.1	67.9	27.0	51.9	55.8	54.5	46.1	57.5	68.2
STD ERR OF P	2.0	3.1	3.9	5.1	2.6	2.7	2.0	2.9	2.2	4.2	4.4	2.4	2.5	5.6	10.3	3.6	3.8	3.9	4.8	4.7
RESPONSE: 03 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	15.2	2.1	2.3	-2.5	-1.3	-0.9	0.9	-1.6	-0.1	4.7	2.6	-0.7	-3.6#	-3.1	-1.0	1.7	-1.7	1.4	1.5	-2.9
STD ERR OF DP		1.7	2.2	1.5	1.3	0.9	1.0	2.0	0.5	3.9	3.7	1.5	1.2	2.2	3.1	1.3	1.9	2.2	2.2	2.3
STD ERR OF P	0.9	1.9	2.7	1.8	1.2	1.2	1.5	2.1	1.0	4.1	3.7	1.8	1.5	2.1	3.4	1.8	2.2	2.2	2.3	2.2
AGE: 13																				
DELTA-P	8.4	3.8	-0.4	-1.9	-0.9	-2.3#	2.3#	2.8	-0.8*	3.8	7.3	-0.8	-3.8#	0.4	0.5	-0.8	-0.0	0.9	2.6	-2.3
STD ERR OF DP		2.6	1.5	1.2	1.5	0.8	0.8	1.8	0.4	3.2	3.9	1.2	1.0	2.4	2.5	1.6	1.6	2.3	1.8	1.8
STD ERR OF P	1.0	3.3	1.6	1.1	1.6	1.4	1.2	2.0	1.1	3.2	4.6	1.3	0.8	2.4	2.8	2.3	1.5	2.3	1.8	1.7

EXERCISE: UR11

Part B.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	2.0	1.4	-0.3	-0.7	-0.3	-0.6*	0.6*	4.1#	-0.8#	-1.3#	3.7	1.1	-1.2#	1.9	0.5	0.3	0.2	0.4	-1.1	-2.0#
STD ERR OF DP		0.8	0.6	0.6	0.7	0.3	0.3	1.4	0.3	0.5	2.2	0.7	0.4	1.9	1.3	0.5	0.6	1.1	0.7	0.4
STD ERR OF P	0.4	0.9	0.6	0.6	0.8	0.5	0.5	1.6	0.4	0.5	2.2	0.9	0.3	2.0	1.4	0.7	0.6	1.2	0.7	0.0
AGE: 13																				
DELTA-P	0.3	0.1	0.2	-0.2	0.0	-0.2	0.2	0.3	-0.1	-0.3*	0.7	0.0	-0.3*	0.6	0.5	0.1	0.0	-0.3*	-0.3*	-0.3*
STD ERR OF DP		0.2	0.3	0.2	0.3	0.1	0.1	0.3	0.1	0.1	0.6	0.2	0.1	0.6	0.5	0.2	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.4	0.1	0.3	0.1	0.3	0.3	0.1	0.0	0.6	0.3	0.0	0.6	0.6	0.3	0.3	0.0	0.0	0.0
RESPONSE: 01* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	60.2	-13.7#	0.3	8.9#	2.9	3.5#	-3.7#	-31.6#	6.9#	-16.4#	-16.0#	-2.8	12.2#	-21.4#	-9.4*	-1.9	7.1*	-8.6#	7.0*	19.7#
STD ERR OF DP		2.3	2.3	1.8	2.3	1.0	1.0	2.8	0.7	4.9	4.6	2.0	1.6	4.6	4.1	1.8	3.5	2.5	3.0	2.9
P-VALUE	60.2	46.4	60.4	69.0	63.0	63.7	56.4	28.6	67.1	43.7	44.1	57.4	72.4	38.8	50.7	58.2	67.3	51.6	67.2	79.9
STD ERR OF P	1.2	2.4	2.6	2.0	2.8	1.4	1.7	2.9	1.1	5.1	4.8	2.3	1.8	4.9	4.0	2.0	3.8	2.8	3.2	2.9
AGE: 13																				
DELTA-P	83.0	-8.1#	4.0*	-1.4	5.1#	1.5	-1.4	-23.9#	4.1#	-13.6#	-11.1*	1.8	6.0#	-11.2#	-1.0	0.5	-2.9	-4.5	4.9	7.5#
STD ERR OF DP		2.8	1.8	2.3	1.7	1.2	1.1	3.1	0.7	3.8	4.8	1.2	1.2	3.9	4.2	2.0	3.7	3.1	2.6	2.8
P-VALUE	83.0	74.9	86.9	81.6	88.1	84.5	81.5	59.1	87.1	69.4	71.9	84.8	89.0	71.8	81.9	83.5	80.1	78.5	87.9	90.4
STD ERR OF P	1.3	3.5	1.7	2.8	1.5	2.0	1.4	3.7	1.3	4.0	5.2	1.7	1.4	4.0	4.4	2.7	4.0	3.2	2.8	2.7

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
EXERCISE: UE11																				
This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.																				
Part B.																				
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	6.5	3.3#	0.5	-2.8#	-0.4	-0.6	0.6	3.3*	-1.3#	3.6	-0.3	0.1	-3.6#	0.6	2.7	0.2	-1.5	3.0	-0.9	-3.4#
STD ERR OF DP		1.2	1.3	0.9	1.0	0.5	0.5	1.6	0.4	3.3	2.2	1.1	0.7	1.8	1.8	1.0	1.8	1.7	1.3	1.3
STD ERR OF P	0.6	1.4	1.5	1.0	1.1	0.7	0.9	1.8	0.5	3.5	2.2	1.3	0.6	1.9	2.0	1.2	2.0	1.8	1.4	1.2
AGE: 13																				
DELTA-P	1.8	1.1	-0.1	0.0	-0.9	-0.4	0.4	4.0#	-0.8#	1.1	1.4	-0.5	-0.8	0.6	1.5	-0.4	0.5	2.4	-1.5#	-1.5#
STD ERR OF DP		0.7	0.7	0.6	0.5	0.4	0.3	1.1	0.3	1.8	1.0	0.4	0.4	1.5	1.7	0.5	0.9	1.4	0.5	0.4
STD ERR OF P	0.4	0.9	0.8	0.7	0.5	0.5	0.5	1.2	0.3	1.9	1.2	0.4	0.4	1.5	1.8	0.6	1.0	1.5	0.3	0.3
EXERCISE: UE11																				
Part C.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.5	0.9	-0.4	-0.6	0.2	-0.1	0.2	2.1*	-0.5*	4.5	0.7	-0.2	-1.3#	1.4	0.6	-0.2	0.5	0.3	-0.5	-1.1*
STD ERR OF DP		0.6	0.5	0.4	0.6	0.3	0.3	1.0	0.2	2.8	1.1	0.4	0.3	1.5	1.0	0.4	0.7	1.0	0.6	0.5
STD ERR OF P	0.3	0.8	0.5	0.5	0.7	0.4	0.4	1.1	0.3	3.0	1.1	0.5	0.1	1.6	1.0	0.5	0.8	1.2	0.7	0.4
AGE: 13																				
DELTA-P	0.2	0.2	-0.0	-0.2*	0.0	-0.2	0.1	0.2	-0.1	-0.2*	-0.2*	-0.1	-0.1	-0.2*	0.7	-0.2*	0.2	-0.2*	-0.2*	0.2
STD ERR OF DP		0.2	0.1	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.3	0.1	0.1	0.4
STD ERR OF P	0.1	0.3	0.2	0.0	0.2	0.0	0.2	0.3	0.1	0.0	0.0	0.1	0.1	0.0	0.6	0.0	0.3	0.0	0.0	0.4
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	84.2	-5.0*	0.7	4.0*	-0.3	1.8	-1.9	-17.0#	3.6#	-5.9	-6.0	-3.0	6.0#	-10.0*	-1.4	0.8	2.5	-1.7	-1.1	5.3*
STD ERR OF DP		2.3	1.6	1.6	1.7	0.9	1.0	2.8	0.6	4.8	4.5	1.7	1.1	4.3	3.1	1.2	3.1	2.7	1.9	2.4
P-VALUE	84.2	79.2	84.8	88.2	83.9	85.9	82.3	67.2	87.8	78.3	78.2	81.2	90.2	74.2	82.8	85.0	86.7	82.5	83.1	89.5
STD ERR OF P	1.0	2.8	1.7	1.9	2.0	1.4	1.4	3.2	0.9	5.0	4.7	2.0	1.3	4.6	3.4	1.3	3.5	2.9	2.1	2.1
AGE: 13																				
DELTA-P	92.6	-4.4#	1.1	1.7	1.0	1.1	-1.1	-11.8#	1.9#	-8.3#	-2.5	1.0	3.0#	-4.9	-0.5	0.3	-0.1	-0.4	-0.6	3.6*
STD ERR OF DP		1.2	1.0	1.2	1.3	0.6	0.6	1.7	0.4	2.8	1.6	0.8	0.6	2.5	2.2	1.0	1.1	2.1	1.7	1.5
P-VALUE	92.6	88.2	93.7	94.3	93.6	93.7	91.5	80.8	94.6	84.4	90.1	93.6	95.7	87.7	92.2	92.9	92.6	92.3	92.0	96.2
STD ERR OF P	0.7	1.4	1.1	1.4	1.5	0.8	1.0	1.9	0.7	2.8	1.7	1.0	0.7	2.5	2.3	1.4	1.3	2.2	1.8	1.6
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	2.9	1.5	-0.4	-0.9	-0.1	-0.1	0.1	2.9#	-0.8#	3.9	-0.7	0.2	-2.1#	0.4	0.3	0.2	-0.9	-0.1	1.3	-1.3
STD ERR OF DP		0.8	0.8	0.7	0.7	0.4	0.4	1.1	0.2	2.5	1.7	0.7	0.4	1.1	1.2	0.6	0.8	1.1	1.0	0.8
STD ERR OF P	0.4	0.9	0.9	0.8	0.8	0.5	0.6	1.3	0.4	2.5	1.8	0.9	0.3	1.2	1.2	0.8	0.7	1.2	1.2	0.7
AGE: 13																				
DELTA-P	0.9	1.3	-0.1	-0.4	-0.7*	-0.6#	0.6#	1.8*	-0.4*	1.3	1.0	0.4	-0.9#	0.0	0.6	-0.2	1.3	-0.1	-0.6	-0.7
STD ERR OF DP		0.7	0.5	0.3	0.3	0.2	0.2	0.8	0.2	1.3	0.7	0.4	0.3	0.7	0.9	0.2	0.8	0.6	0.4	0.4
STD ERR OF P	0.3	0.9	0.6	0.3	0.2	0.2	0.4	0.9	0.2	1.5	0.8	0.5	0.0	0.7	1.0	0.4	0.9	0.6	0.3	0.3
EXERCISE: UE11																				
Part D.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.5	0.8	-0.2	-0.5	-0.1	-0.3	0.3	1.9	-0.6*	3.6	-1.1*	-0.1	-0.9	0.3	-0.5	-0.3	1.1	2.0	-1.1	-1.1
STD ERR OF DP		0.7	0.7	0.5	0.5	0.3	0.3	1.1	0.3	2.7	0.5	0.5	0.5	1.1	0.8	0.6	1.3	1.5	0.8	0.9
STD ERR OF P	0.4	0.8	0.9	0.6	0.6	0.5	0.4	1.2	0.4	2.8	0.4	0.6	0.5	1.2	0.9	0.6	1.5	1.6	0.8	0.8
AGE: 13																				
DELTA-P	0.7	0.4	-0.4	0.2	-0.2	-0.1	0.1	0.0	-0.0	0.5	0.4	0.0	-0.7*	-0.0	0.8	0.3	-0.6*	1.0	-0.7#	-0.7#
STD ERR OF DP		0.6	0.3	0.4	0.4	0.2	0.2	0.4	0.1	0.7	0.5	0.3	0.3	0.6	0.7	0.5	0.3	0.9	0.3	0.3
STD ERR OF P	0.3	0.8	0.2	0.5	0.4	0.2	0.4	0.4	0.3	0.7	0.6	0.4	0.1	0.5	0.7	0.7	0.1	0.9	0.0	0.0

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
EXERCISE: UE11																				
This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.																				
Part D.																				
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	1.5	-1.5*	1.1	0.8	-0.5	0.4	-0.4	-1.0*	0.2	-1.5*	-0.8	-0.1	1.0*	-0.7	-0.6	-0.5	-0.3	-0.6	0.6	2.9
STD ERR OF DP		0.4	0.6	0.8	0.4	0.3	0.3	0.5	0.1	0.4	0.7	0.4	0.5	0.8	0.8	0.4	0.5	0.7	0.8	1.5
P-VALUE	1.5	0.0	2.6	2.2	1.0	1.9	1.0	0.8	1.7	0.0	0.7	1.3	2.5	0.8	0.8	0.9	1.1	0.8	2.0	4.3
STD ERR OF P	0.4	0.0	0.7	1.1	0.3	0.6	0.3	0.4	0.4	0.0	0.7	0.5	0.8	0.8	0.9	0.3	0.5	0.6	1.0	1.8
AGE: 13																				
DELTA-P	24.6	-7.8*	1.3	6.4*	-1.5	4.8*	-4.6*	-17.2*	3.4*	-15.9*	-16.4*	-1.4	11.3*	-7.8*	-4.7	-2.1	0.2	-2.4	1.6	14.4*
STD ERR OF DP		2.1	1.7	1.9	1.9	1.1	1.1	1.8	0.5	2.2	2.0	1.7	1.5	3.5	3.2	1.8	2.2	3.2	3.2	3.7
P-VALUE	24.6	16.7	25.9	31.0	23.1	29.4	19.9	7.3	28.0	8.7	8.2	23.1	35.8	16.8	19.8	22.5	24.7	22.1	26.1	38.9
STD ERR OF P	1.1	2.5	1.8	2.3	2.2	1.7	1.4	1.5	1.4	2.0	1.9	2.1	1.9	3.5	3.5	2.2	2.3	3.1	3.4	3.9
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	13.7	0.7	2.3	-4.2*	1.9	-0.4	0.4	-6.4*	0.5	1.0	-3.3	-2.4*	-1.2	-7.7*	0.8	-0.2	3.5	0.3	-1.7	2.2
STD ERR OF DP		1.3	1.7	1.0	1.2	0.8	0.8	1.5	0.4	3.8	3.4	1.1	1.1	1.9	2.1	0.9	2.2	2.1	1.9	2.0
STD ERR OF P	0.7	1.4	2.1	1.0	1.4	0.9	1.3	1.5	0.7	3.7	3.4	1.2	1.4	1.8	2.3	1.3	2.6	2.0	1.9	2.0
AGE: 13																				
DELTA-P	8.6	1.7	1.3	-2.4*	-0.0	-0.9	0.8	0.8	-0.9*	1.0	3.7	0.8	-3.3*	2.6	-1.2	-0.5	0.1	0.0	0.4	0.3
STD ERR OF DP		1.6	1.6	1.1	1.1	0.7	0.7	1.5	0.4	3.2	2.2	1.0	0.8	2.5	2.3	1.1	1.8	2.1	1.5	1.7
STD ERR OF P	0.8	1.9	2.0	1.2	1.1	1.0	1.1	1.8	0.7	3.4	2.6	1.2	0.9	2.7	2.5	1.3	2.1	2.2	1.7	1.5
EXERCISE: UE11																				
Part E.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.9	1.4*	-0.9*	-0.9*	0.4	-0.2	0.3	3.9*	-0.7*	0.3	-0.3	0.7	-0.4	1.2	0.7	-0.1	1.4	-0.9*	-0.9*	-0.9*
STD ERR OF DP		0.6	0.2	0.2	0.5	0.2	0.2	1.1	0.2	1.1	0.6	0.6	0.3	1.1	0.8	0.3	0.7	0.2	0.2	0.2
STD ERR OF P	0.2	0.7	0.0	0.1	0.6	0.3	0.3	1.3	0.1	1.2	0.7	0.8	0.2	1.2	0.9	0.4	0.8	0.0	0.0	0.0
AGE: 13																				
DELTA-P	0.0	0.1	-0.0	-0.0	-0.0	0.0	-0.0	0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	-0.0	0.1	-0.0	-0.0	-0.0
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	81.5	-8.0*	0.0	6.3*	0.5	1.5	-1.6	-20.2*	4.3*	-2.8	-4.7	-1.6	4.4*	-12.0*	-1.6	1.0	-0.9	-2.8	1.0	9.2*
STD ERR OF DP		2.8	1.7	1.6	1.6	0.9	1.0	2.8	0.6	3.7	3.5	1.7	1.3	4.1	4.3	1.5	2.8	2.9	2.5	2.3
P-VALUE	81.5	73.6	81.6	87.9	82.0	83.0	80.0	61.3	85.9	78.7	76.8	79.9	85.9	69.6	80.0	82.5	80.6	78.7	82.5	90.7
STD ERR OF P	1.1	3.5	1.7	1.9	1.6	1.3	1.6	3.3	0.9	3.9	3.9	2.3	1.4	4.3	4.7	1.9	3.1	3.0	2.6	1.9
AGE: 13																				
DELTA-P	90.9	-2.8*	0.4	0.2	2.0*	-0.6	0.6	-13.0*	1.9*	-5.1	-2.2	1.0	2.1*	-1.8	-3.1	2.2	-1.8	-5.0*	1.5	2.5
STD ERR OF DP		1.2	1.2	0.9	1.0	0.8	0.8	2.2	0.3	3.2	2.1	1.2	0.9	2.3	2.7	1.2	2.2	2.0	1.6	2.3
P-VALUE	90.9	88.1	91.3	91.0	92.9	90.2	91.5	77.9	92.8	85.8	88.7	91.9	93.0	89.1	87.8	93.0	89.1	85.9	92.4	93.3
STD ERR OF P	0.6	1.4	1.4	1.0	1.1	1.1	0.9	2.4	0.7	3.2	2.2	1.2	1.2	2.3	2.7	1.4	2.3	1.9	1.7	2.4
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	2.0	1.0	1.3	-1.5*	-0.3	-0.5	0.5	2.1	-0.9*	1.2	2.0	-0.8	-1.0*	2.2	-0.9	1.3	-0.5	-1.2	-1.1	-1.5*
STD ERR OF DP		0.9	1.1	0.5	0.9	0.4	0.4	1.1	0.3	2.1	1.6	0.5	0.4	1.7	0.7	0.8	0.7	0.7	0.7	0.7
STD ERR OF P	0.5	1.0	1.4	0.3	1.1	0.5	0.8	1.2	0.4	2.3	1.8	0.6	0.5	1.7	0.7	1.2	0.8	0.6	0.6	0.5
AGE: 13																				
DELTA-P	0.4	0.0	-0.1	0.0	0.1	-0.2	0.2	1.8*	-0.2*	-0.4*	0.7	0.1	-0.3*	-0.0	-0.4*	-0.2	0.2	1.1	-0.4*	0.1
STD ERR OF DP		0.2	0.2	0.2	0.3	0.1	0.1	0.7	0.1	0.1	0.7	0.2	0.1	0.3	0.1	0.1	0.4	0.7	0.1	0.4
STD ERR OF P	0.1	0.2	0.2	0.3	0.3	0.1	0.2	0.8	0.1	0.0	0.7	0.2	0.1	0.3	0.0	0.1	0.4	0.8	0.0	0.5

EXERCISE: UE11

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

Part F.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.1	0.9	-0.2	-0.5	-0.1	-0.5*	0.5*	2.0*	-0.4*	3.1	1.4	-0.1	-0.5	2.3	2.4	-0.2	-0.6	-0.7	-0.9*	-0.7
STD ERR OF DP		0.6	0.4	0.4	0.4	0.2	0.2	0.9	0.2	2.0	1.4	0.4	0.3	1.5	1.4	0.4	0.4	0.5	0.3	0.4
STD ERR OF P	0.3	0.7	0.4	0.4	0.5	0.2	0.4	1.0	0.2	2.1	1.4	0.5	0.3	1.6	1.5	0.4	0.3	0.5	0.2	0.4
AGE: 13																				
DELTA-P	0.2	0.1	-0.2	0.2	-0.2	-0.1	0.1	0.6	-0.1	0.4	0.2	0.0	-0.2	-0.2	0.4	0.0	0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.2	0.1	0.2	0.1	0.1	0.1	0.4	0.1	0.6	0.3	0.2	0.1	0.1	0.4	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.3	0.0	0.0	0.2	0.5	0.1	0.6	0.3	0.2	0.0	0.0	0.4	0.2	0.3	0.0	0.0	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	47.5	-14.0*	0.7	11.2*	0.2	4.9*	-5.2*	-24.6*	5.0*	-14.4*	-10.3*	-3.8	10.8*	-21.4*	-0.7	-1.6	3.2	1.4	1.3	12.6*
STD ERR OF DP		2.5	2.5	2.3	1.8	1.0	1.1	3.0	0.6	4.8	4.8	2.1	1.6	2.4	5.5	1.6	3.4	3.0	3.6	2.9
P-VALUE	47.5	33.5	48.2	58.6	47.6	52.4	42.3	22.9	52.5	33.0	37.2	43.7	58.3	26.1	46.8	45.9	50.7	48.9	48.8	60.1
STD ERR OF P	1.4	2.8	2.9	2.9	1.7	1.6	1.9	3.0	1.5	4.8	4.8	2.3	2.0	2.3	6.2	2.0	3.7	3.2	3.7	2.9
AGE: 13																				
DELTA-P	72.6	-3.8	-0.5	2.5	1.1	3.1*	-3.0*	-22.0*	3.5*	-10.2*	-3.8	2.4	4.5*	-14.1*	-2.6	-0.8	-1.2	-0.5	4.2	9.4*
STD ERR OF DP		2.5	1.8	1.8	1.9	1.1	1.1	3.0	0.6	2.7	2.8	1.6	1.3	3.3	6.6	2.0	2.8	2.9	2.8	2.6
P-VALUE	72.6	68.8	72.1	75.1	73.7	75.7	69.6	50.6	76.1	62.4	68.7	75.0	77.1	58.5	70.0	71.7	71.4	72.1	76.8	82.0
STD ERR OF P	1.1	2.9	1.9	2.1	2.1	1.5	1.6	3.0	1.2	2.7	3.1	1.8	1.8	3.5	7.1	2.2	2.8	3.1	2.7	2.9
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	4.4	1.7	1.1	-2.9*	0.6	-0.7	0.7	0.6	-1.0*	2.0	0.6	-2.2*	-2.4*	1.2	-3.4*	0.7	0.1	3.8	-3.2*	-0.5
STD ERR OF DP		1.0	1.2	0.7	1.2	0.5	0.6	1.0	0.3	2.8	2.1	0.7	0.6	1.9	0.8	1.0	1.6	2.3	0.8	1.3
STD ERR OF P	0.6	1.1	1.4	0.5	1.5	0.7	0.9	1.2	0.6	3.0	2.3	0.6	0.5	1.8	0.6	1.3	1.7	2.5	0.6	1.2
AGE: 13																				
DELTA-P	0.6	0.5	-0.1	-0.3	-0.0	-0.4*	0.4*	2.1*	-0.4*	-0.6*	1.3	-0.2	-0.4*	1.8	-0.6*	-0.4*	0.7	0.3	-0.3	-0.2
STD ERR OF DP		0.4	0.4	0.2	0.3	0.2	0.2	0.8	0.2	0.2	0.8	0.2	0.2	1.5	0.2	0.2	0.5	0.5	0.3	0.4
STD ERR OF P	0.2	0.4	0.4	0.2	0.3	0.1	0.3	0.9	0.1	0.0	0.8	0.2	0.2	1.6	0.0	0.1	0.6	0.6	0.3	0.4

EXERCISE: UE11

Part I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	4.6	0.3	-0.5	-1.0	1.3	-0.7	0.8	3.3*	-1.0*	0.4	3.5	-0.2	-1.0	1.0	4.0	0.5	-2.1*	1.3	-3.1*	-0.7
STD ERR OF DP		1.1	1.0	0.9	1.2	0.5	0.5	1.5	0.3	2.2	2.6	1.0	0.6	2.0	2.2	0.8	1.0	1.7	1.1	1.5
STD ERR OF P	0.6	1.2	1.0	1.1	1.5	0.8	0.8	1.8	0.6	2.3	2.7	1.3	0.8	2.0	2.4	1.1	0.8	1.9	1.0	1.6
AGE: 13																				
DELTA-P	1.8	-0.8	0.5	0.7	-0.6	-0.5	0.5	-0.2	-0.5	4.7	-0.9	0.1	-0.7	0.7	3.0	-0.4	1.7	-0.6	-1.7*	-1.2
STD ERR OF DP		0.7	0.9	0.7	0.5	0.4	0.4	0.8	0.3	3.2	0.8	0.5	0.4	1.5	2.3	0.5	1.2	0.8	0.4	0.6
STD ERR OF P	0.4	0.7	1.1	0.8	0.5	0.4	0.7	0.9	0.3	3.4	0.8	0.6	0.4	1.6	2.6	0.5	1.3	0.8	0.1	0.6
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	17.9	-2.9*	2.1	4.5*	-4.2*	0.6	-0.7	-11.9*	2.9*	-8.5*	-2.2	-1.1	7.3*	-11.2*	-2.8	0.9	1.6	-2.5	4.1	3.4
STD ERR OF DP		1.4	2.2	2.1	1.4	0.9	0.8	1.4	0.4	3.0	4.0	1.7	1.1	1.5	2.6	1.5	2.3	3.0	2.4	2.7
P-VALUE	17.9	14.9	19.9	22.4	13.7	18.5	17.2	5.9	20.8	9.4	15.7	16.8	25.2	6.7	15.0	18.7	19.5	15.4	22.0	21.2
STD ERR OF P	1.1	1.3	2.6	2.7	1.2	1.3	1.3	1.5	1.2	3.3	4.1	2.0	1.6	1.5	2.8	2.0	2.5	3.2	2.5	2.7
AGE: 13																				
DELTA-P	42.7	-3.3	4.5	1.0	-2.7	3.1*	-3.0*	-17.5*	3.6*	-13.2*	-10.6*	-0.8	8.0*	-7.8	-5.9	0.5	0.7	-4.1	2.5	7.9*
STD ERR OF DP		2.5	2.5	2.9	2.3	1.3	1.2	2.5	0.6	4.0	4.5	2.0	1.6	5.3	3.7	2.0	3.1	3.7	3.2	3.7
P-VALUE	42.7	39.4	47.2	43.6	40.0	45.8	39.7	25.2	46.3	29.5	32.1	41.9	50.6	34.8	36.8	43.2	43.4	38.6	45.1	50.6
STD ERR OF P	1.5	2.6	2.9	3.6	2.5	1.9	1.9	2.6	1.5	4.1	4.9	2.5	2.0	5.8	3.7	2.6	3.4	3.9	3.3	4.0

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                         NATION |         REGION            |     SEX      |     RACE     |   PARENTAL EDUCATION      |         SIZE-AND-TYPE OF COMMUNITY
                                | SOUTH                NORTH |              |              |       SOME   GRAD   POST  |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                         _______|__EAST__WEST_CENTRAL__EAST_|__MALE_FEMALE_|_BLACK__WHITE_|_NO HS__HS_____HS_____HS__|_METRO__RURAL__PLACES__CITY_BIG CTY FRINGE METRO

EXERCISE: UE11

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

Part I.

RESPONSE:  03    AGE:  9        TEXT:  I Don't Know.

    DELTA-P              17.1     3.9   0.5  -5.5#   2.1    -2.0*  2.1*    0.7  -0.9     5.3  -0.6   0.8  -5.2#    2.6   4.0   0.5  -2.6   4.5  -5.5* -1.9
    STD ERR OF DP                 2.8   2.3   2.0    2.2     0.9   1.0     2.3   0.5     3.8   3.6   1.6   1.1     2.9   4.2   1.7   2.5   2.7   2.4   3.0
    STD ERR OF P          1.3     3.4   2.6   2.1    2.5     1.3   1.9     2.2   1.6     4.2   4.1   2.2   1.5     2.7   4.5   2.4   2.8   2.8   2.7   3.2

                  AGE: 13

    DELTA-P              13.6     4.6* -3.5# -1.5    1.1    -3.8#  3.7#    5.4# -0.9*   -2.2   5.9   1.5  -3.1#    0.6   1.0  -0.3  -1.7   3.7  -1.8   0.5
    STD ERR OF DP                 2.0   1.3   1.5    1.8     1.1   1.0     1.9   0.4     2.5   4.1   1.3   1.2     2.7   3.3   1.5   1.8   2.2   2.3   2.3
    STD ERR OF P          1.0     2.4   1.2   1.8    2.1     1.6   1.2     2.1   1.1     2.7   4.5   1.5   1.4     2.8   3.5   1.9   1.7   2.2   2.5   2.6

EXERCISE: UE11

Part K.

RESPONSE:  00    AGE:  9        TEXT:  No Response.

    DELTA-P               0.6     0.2  -0.1  -0.6#   0.5    -0.4*  0.4*   -0.4   0.1    -0.6#  1.3  -0.2   0.0    -0.6#  1.1  -0.2   0.3  -0.6# -0.6#  0.9
    STD ERR OF DP                 0.3   0.3   0.2    0.5     0.2   0.2     0.3   0.1     0.2   1.2   0.3   0.2     0.2   0.8   0.2   0.5   0.2   0.2   1.0
    STD ERR OF P          0.2     0.4   0.3   0.1    0.6     0.2   0.3     0.2   0.2     0.0   1.3   0.2   0.3     0.0   0.9   0.3   0.6   0.0   0.0   1.1

                  AGE: 13

    DELTA-P               0.2    -0.1  -0.0   0.0    0.1    -0.2   0.2     0.6  -0.1     0.2   0.0   0.1  -0.0     0.2  -0.2#  0.0   0.4  -0.2* -0.1  -0.2*
    STD ERR OF DP                 0.1   0.1   0.2    0.2     0.1   0.1     0.5   0.1     0.4   0.2   0.2   0.1     0.4   0.1   0.2   0.4   0.1   0.1   0.1
    STD ERR OF P          0.1     0.1   0.1   0.2    0.3     0.0   0.2     0.6   0.1     0.4   0.2   0.2   0.2     0.4 [illegible] 0.2 0.5   0.0   0.1   0.0

RESPONSE:  01*   AGE:  9        TEXT:  All Acceptable Responses.

    DELTA-P              16.1    -3.2   1.9   3.3   -2.3     3.6# -3.8#  -10.7#  2.6#   -3.0  -9.4# -3.1*  6.4#   -7.8# -1.2  -3.4#  4.2  -2.1   0.8  11.8#
    STD ERR OF DP                 2.2   2.5   1.8    1.6     0.9   0.9     1.5   0.4     3.9   3.0   1.4   1.5     2.2   3.0   1.3   3.4   1.9   2.3   3.3
    P-VALUE              16.1    12.9  18.0  19.4   13.8    19.7  12.3     5.4  18.7    13.2   6.7  13.0  22.5     8.3  15.0  12.7  20.3  14.0  16.9  27.9
    STD ERR OF P          1.2     2.5   2.9   2.1    1.6     1.6   1.3     1.2   1.3     4.0   3.0   1.7   2.2     2.0   3.4   1.6   3.9   2.0   2.4   3.5

                  AGE: 13

    DELTA-P              39.4    -8.4#  3.5   3.1    0.8     7.3# -7.0#  -22.2#  4.1#  -15.3# -10.3# -1.2   8.5#   -9.9# -2.7   0.7   0.4  -4.2   4.4   4.3
    STD ERR OF DP                 2.2   2.0   1.9    1.7     1.1   1.2     2.3   0.6     3.6   3.4   1.8   1.5     3.4   3.7   2.1   4.2   3.3   2.9   2.9
    P-VALUE              39.4    31.0  43.0  42.5   40.2    46.7  32.4    17.2  43.6    24.1  29.2  38.3  48.0    29.5  36.7  40.1  39.9  35.3  43.8  43.7
    STD ERR OF P          1.1     2.5   2.3   2.3    1.8     1.7   1.5     2.4   1.2     3.6   3.5   2.1   1.9     3.3   3.8   2.4   4.4   3.4   3.2   3.0

RESPONSE:  03    AGE:  9        TEXT:  I Don't Know.

    DELTA-P               2.1     0.4  -0.5  -0.2    0.3    -0.5   0.5     0.8  -0.2     1.8   0.6   0.0  -0.7     1.8   2.3  -0.1   0.6  -1.5# -1.2  -0.6
    STD ERR OF DP                 0.8   0.5   0.5    0.7     0.4   0.4     1.0   0.2     1.6   1.3   0.4   0.4     1.2   1.7   0.5   1.1   0.5   0.6   0.9
    STD ERR OF P          0.4     1.0   0.5   0.5    0.8     0.4   0.7     1.2   0.4     1.8   1.4   0.5   0.5     1.3   1.9   0.6   1.2   0.5   0.5   0.9

                  AGE: 13

    DELTA-P               1.0     0.6  -0.3   0.1   -0.4    -0.4   0.4     0.7  -0.1     0.4  -0.0  -0.0  -0.4    -0.2  -0.3   0.5   0.8  -0.7  -0.6* -0.6
    STD ERR OF DP                 0.5   0.3   0.4    0.4     0.2   0.2     0.6   0.1     0.9   0.9   0.3   0.3     0.5   0.5   0.4   0.7   0.4   0.3   0.4
    STD ERR OF P          0.2     0.6   0.3   0.5    0.4     0.3   0.4     0.6   0.3     1.0   0.9   0.4   0.3     0.5   0.5   0.6   0.8   0.3   0.3   0.4
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Report #: UE12

NAEP #: E13002-34

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		17	Adult
Package-Exercise:		13-08	08-03
National P-value:			
	UE12A	68.49	76.64
	UE12B	54.34	55.46
	UE12C	58.39	69.35
	UE12E	20.54	39.69
	UE12F	16.25	34.68
	UE12H	9.18	19.61

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UE12

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

Part A.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.6	-0.3	-0.2	-0.1	0.5	-0.4*	0.4*	2.0	-0.3	1.6	-0.3	-0.3	-0.2	0.9	-0.2	-0.2	-0.1	0.0	0.5	-0.6#
STD ERR OF DP		0.2	0.3	0.3	0.4	0.2	0.2	1.0	0.2	1.1	0.4	0.2	0.2	0.9	0.4	0.2	0.4	0.6	0.7	0.2
STD ERR OF P	0.2	0.2	0.3	0.4	0.5	0.1	0.4	1.1	0.2	1.2	0.4	0.2	0.3	1.0	0.4	0.2	0.5	0.7	0.8	0.0

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.7	0.4	0.1	-0.2	-0.3	-0.6#	0.5#	2.2*	-0.3*	1.0*	0.4	-0.6#	-0.7#	0.5	-0.7#	0.1	0.1	0.8	-0.7#	-0.3
STD ERR OF DP		0.4	0.4	0.2	0.3	0.2	0.2	1.1	0.1	0.5	0.5	0.2	0.2	0.7	0.2	0.2	0.6	1.0	0.2	0.4
STD ERR OF P	0.2	0.5	0.5	0.2	0.2	0.1	0.4	1.2	0.1	0.6	0.5	0.1	0.0	0.7	0.0	0.3	0.6	1.0	0.0	0.4

RESPONSE: 11* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	68.9	-12.3#	1.6	5.3#	2.7	7.7#	-7.4#	-35.5#	5.5#	-14.0#	-17.0#	-1.1	8.4#	-16.5#	-2.2	1.2	-6.1*	0.2	7.2#	10.3#
STD ERR OF DP		2.7	2.2	2.0	2.1	1.3	1.3	3.0	0.7	5.2	3.5	1.9	1.2	5.0	3.5	1.9	3.0	4.1	2.6	3.1
P-VALUE	68.9	56.6	70.5	74.2	71.6	76.6	61.5	33.4	74.4	54.9	51.9	67.8	77.3	52.4	66.7	70.1	62.8	69.1	76.1	79.2
STD ERR OF P	1.3	3.1	2.4	2.4	2.4	1.8	1.9	3.1	1.3	5.5	3.9	2.4	1.4	5.1	3.6	2.5	3.3	4.3	2.4	3.0

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	76.6	-5.1	3.3	2.0	-1.3	7.3#	-7.1#	-40.8#	5.8#	-9.7#	-8.3#	3.5#	11.3#	-17.5#	1.7	1.9	-0.9	-5.8	-0.3	10.5#
STD ERR OF DP		2.7	2.3	2.0	2.1	1.1	1.2	4.0	0.8	1.7	2.2	1.4	1.6	4.3	3.2	1.7	3.6	5.2	3.0	3.2
P-VALUE	76.6	71.5	79.9	78.7	75.4	84.0	69.6	35.9	82.4	66.9	68.4	80.2	88.0	59.1	78.4	78.6	75.7	70.9	76.3	87.1
STD ERR OF P	1.3	3.1	2.7	2.4	2.3	1.5	2.0	4.2	1.2	2.4	2.5	1.8	1.6	4.3	3.1	2.4	3.9	5.4	3.1	3.3

RESPONSE: 99 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.1	0.2	-0.6	0.0	0.3	-0.5	0.5	1.9*	-0.2	1.6	0.3	0.2	-0.8#	1.1	-0.7	0.3	-0.1	-0.1	-0.3	-0.5
STD ERR OF DP		0.5	0.4	0.5	0.5	0.3	0.3	0.9	0.1	2.0	0.6	0.4	0.3	0.8	0.4	0.5	0.6	0.8	0.6	0.6
STD ERR OF P	0.3	0.5	0.3	0.7	0.6	0.3	0.5	0.9	0.3	2.2	0.6	0.4	0.2	0.8	0.4	0.7	0.6	0.8	0.7	0.6

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.9	0.7	-0.4	-0.9*	0.7	-1.0#	1.0#	5.0#	-1.1#	1.5*	-0.6	-0.0	-1.5#	4.7*	-0.7	-0.4	-0.4	2.0	-1.1	-1.9#
STD ERR OF DP		0.8	0.5	0.4	0.6	0.3	0.3	1.7	0.3	0.7	0.9	0.5	0.4	2.2	0.7	0.4	0.9	1.5	0.6	0.3
STD ERR OF P	0.3	0.9	0.5	0.5	0.8	0.3	0.6	1.9	0.2	0.8	1.1	0.6	0.3	2.4	0.7	0.5	0.9	1.6	0.6	0.0

EXERCISE: UE12

Part B.

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	54.3	-13.0#	4.3	8.7#	-3.0	7.4#	-7.1#	-31.3#	5.6#	-14.9*	-14.8#	-3.3	10.1#	-18.1#	-1.6	0.8	-1.0	-0.7	3.6	11.4#
STD ERR OF DP		1.9	2.3	2.3	2.3	1.4	1.4	2.8	0.7	6.6	3.6	2.3	1.6	4.5	5.0	1.8	3.0	4.7	3.4	3.6
P-VALUE	54.3	41.4	58.7	63.0	51.4	61.7	47.3	23.1	59.9	39.5	39.6	51.1	64.4	36.2	52.7	55.1	53.4	53.7	58.0	65.8
STD ERR OF P	1.4	1.8	2.6	2.9	2.6	2.1	1.7	2.8	1.4	7.2	3.3	2.8	1.8	4.7	5.3	2.0	3.2	4.6	3.8	3.8

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	55.5	-5.0	6.2	-1.6	-0.2	8.5#	-7.9#	-39.0#	5.2#	-8.3#	-3.6	3.7	8.0#	-14.6#	-4.2	5.9*	6.5	-17.3#	-4.6	6.0
STD ERR OF DP		4.2	3.4	2.7	3.5	1.2	1.2	3.0	0.8	1.9	2.7	1.9	2.3	4.7	8.2	2.4	5.4	4.5	4.6	4.3
P-VALUE	55.5	50.5	61.7	53.8	55.2	64.0	47.5	16.5	60.7	47.2	51.9	59.2	63.5	40.8	51.3	61.4	61.9	38.1	50.8	61.4
STD ERR OF P	2.0	5.0	4.0	2.8	4.1	2.6	2.1	3.0	1.9	2.9	3.3	2.7	2.8	4.9	8.5	3.0	5.8	5.1	4.8	4.6

EXERCISE: UE12

Part C.

RESPONSE: 00 GE: 17 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.3	1.4	-0.3	-1.3*	0.6	-0.1	0.1	5.1#	-0.9*	2.7	0.4	-0.7	-0.6	5.1	-1.0	-0.6	0.1	-0.0	-2.0#	0.4
STD ERR OF DP		1.3	0.6	0.6	0.8	0.3	0.3	1.9	0.4	1.7	1.4	0.6	0.4	3.0	0.5	0.6	1.1	1.7	0.6	1.2
STD ERR OF P	0.5	1.6	0.5	0.5	1.0	0.6	0.6	2.3	0.3	1.9	1.5	0.5	0.5	3.3	0.2	0.5	1.2	1.8	0.4	1.3

EXERCISE: UE12

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

Part C.

RESPONSE: 00 AGE: Ad TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.1	0.4	-0.3	-0.5	0.5	-0.7#	0.6#	0.3	-0.1	0.4	0.0	-0.4	-0.4	0.2	-1.1#	0.3	-0.2	-1.1#	1.6	-0.7
STD ERR OF DP		0.5	0.4	0.3	0.5	0.2	0.2	0.7	0.1	0.4	0.5	0.3	0.4	0.6	0.2	0.3	0.5	0.2	1.1	0.4
STD ERR OF P	0.2	0.6	0.4	0.4	0.6	0.2	0.4	0.7	0.3	0.5	0.6	0.4	0.4	0.7	0.0	0.4	0.5	0.0	1.2	0.4

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	58.4	-14.8#	3.2	5.7*	2.8	10.1#	-9.8#	-34.2#	5.6#	-11.9	-18.7#	-5.8#	12.0#	-20.5#	-1.7	2.0	-5.0	-1.1	4.3	14.3#
STD ERR OF DP		2.6	2.2	2.6	2.7	1.4	1.4	2.4	0.7	6.0	3.7	2.1	1.5	3.8	5.0	2.2	3.8	5.2	3.1	3.1
P-VALUE	58.4	43.6	61.6	64.1	61.2	68.5	48.6	24.2	64.0	46.5	39.7	52.6	70.4	37.9	56.7	60.3	53.4	57.3	62.7	72.7
STD ERR OF P	1.5	2.7	2.2	3.4	3.2	2.1	1.9	2.2	1.6	6.3	3.8	2.8	1.9	3.6	5.3	2.7	3.9	5.3	3.6	3.4

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	69.4	-8.7#	6.8#	3.2	-3.2	10.2#	-9.9#	-41.0#	5.7#	-13.8#	-9.4#	5.4#	15.4#	-24.2#	-7.8	2.8	-4.0	-0.9	-1.1	17.9#
STD ERR OF DP		3.4	2.3	2.2	2.7	1.2	1.1	4.1	0.8	2.4	3.0	1.6	2.1	5.1	4.0	1.7	5.1	4.1	3.7	2.6
P-VALUE	69.4	60.6	76.1	72.6	66.2	79.5	59.5	28.4	75.1	55.5	59.9	74.8	84.7	45.2	61.6	72.2	65.4	68.5	68.2	87.3
STD ERR OF P	1.5	4.0	2.6	2.4	3.2	1.7	2.0	3.8	1.4	2.9	3.2	2.3	1.9	5.1	4.1	2.3	5.6	4.2	3.9	2.5

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	9.3	5.1#	-1.0	-2.6*	-0.4	-5.0#	4.8#	6.5#	-1.1#	1.2	7.7#	1.1	-3.8#	3.4	-1.8	-0.1	-0.5	1.2	0.9	-2.8
STD ERR OF DP		1.8	1.4	1.2	1.3	0.7	0.7	2.5	0.4	2.8	2.8	1.0	0.7	2.6	1.8	1.1	2.1	2.8	1.8	2.1
STD ERR OF P	0.8	2.1	1.6	1.5	1.4	0.7	1.3	2.7	0.9	3.0	3.1	1.3	0.8	2.8	1.8	1.4	2.2	2.9	2.1	2.1

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	8.4	3.6#	-1.5	-1.5	0.2	-4.3#	4.2#	6.5#	-1.0#	4.3#	2.8	-3.0#	-4.1#	3.3	2.9	0.8	0.9	-5.4#	1.8	-5.0#
STD ERR OF DP		1.3	1.3	1.7	1.8	0.7	0.7	2.2	0.3	1.5	2.2	1.1	1.2	3.0	2.8	1.2	2.8	1.7	2.2	1.5
STD ERR OF P	0.9	1.3	1.3	2.1	2.1	0.7	1.4	2.4	1.0	1.9	2.1	1.4	1.0	3.3	2.8	1.6	2.9	1.5	2.3	1.4

EXERCISE: UE12

Part E.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.1	-0.4	0.4	0.2	-0.3	-0.0	0.0	0.2	0.0	0.3	-0.7	-0.3	0.4	-1.1#	-0.7	-0.2	0.4	0.0	0.4	1.1
STD ERR OF DP		0.4	0.4	0.5	0.4	0.3	0.3	0.6	0.1	1.2	0.5	0.3	0.3	0.3	0.4	0.3	0.9	0.6	0.7	1.2
STD ERR OF P	0.3	0.4	0.5	0.7	0.4	0.4	0.3	0.7	0.3	1.3	0.4	0.3	0.4	0.0	0.3	0.4	1.0	0.6	0.7	1.3

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.7	0.3	-0.2	-0.2	0.1	-0.5*	0.5*	-0.3	-0.1	0.6	-0.5	0.2	-0.4	0.4	-0.7#	-0.4	0.1	0.5	1.2	0.0
STD ERR OF DP		0.7	0.4	0.3	0.4	0.2	0.2	0.4	0.2	0.5	0.3	0.3	0.4	0.5	0.3	0.3	0.6	1.1	1.3	0.7
STD ERR OF P	0.2	0.8	0.4	0.3	0.5	0.2	0.4	0.4	0.2	0.7	0.2	0.4	0.4	0.6	0.0	0.2	0.6	1.2	1.5	0.7

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	28.6	-12.5#	6.7#	3.7	-0.0	8.4#	-8.1#	-24.4#	3.6#	-14.2#	-15.8#	-5.8#	11.7#	-19.1#	-6.6	3.3	-0.6	-2.4	-2.0	16.6#
STD ERR OF DP		2.2	2.5	2.6	2.2	1.3	1.3	1.7	0.5	3.9	2.9	2.0	1.5	2.6	4.4	1.9	3.4	3.7	2.7	3.9
P-VALUE	28.6	16.1	35.2	32.2	28.5	37.0	20.4	4.1	32.2	14.4	12.8	22.7	40.2	9.5	22.0	31.9	28.0	26.2	26.6	45.2
STD ERR OF P	1.5	2.3	2.8	3.4	2.4	2.1	1.7	1.0	1.6	4.5	2.7	2.1	2.2	2.2	4.5	2.5	3.7	3.4	3.1	4.2

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	39.7	-4.9	6.9*	0.7	-3.7	11.0#	-10.7#	-36.8#	5.0#	-11.5#	-6.0*	0.5	15.7#	-22.4#	-4.2	2.4	1.8	-9.8*	-3.5	18.6#
STD ERR OF DP		3.6	3.0	2.9	2.5	1.4	1.3	2.2	0.7	2.1	2.5	1.7	2.2	2.9	4.7	2.4	5.3	4.8	3.4	4.3
P-VALUE	39.7	34.8	46.5	40.4	36.0	50.7	29.0	2.9	44.7	28.2	33.6	40.2	55.4	17.3	35.5	42.1	41.5	29.9	36.2	58.3
STD ERR OF P	1.7	4.1	3.5	3.4	2.6	2.5	1.8	1.3	1.7	2.7	3.1	2.4	2.4	3.4	4.7	3.2	5.7	5.2	3.3	4.3

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.6	-0.2	-0.0	0.3	-0.2	-0.6	0.6	-1.7#	0.3*	1.3	-0.7	0.4	-0.4	2.1	-0.2	-0.9	-0.3	0.1	1.9	-1.1
STD ERR OF DP		1.1	0.7	0.5	0.6	0.4	0.4	0.6	0.1	2.6	0.9	0.6	0.5	2.6	0.9	0.5	0.9	0.9	1.3	0.9
STD ERR OF P	0.4	1.3	0.7	0.6	0.6	0.7	0.5	0.5	0.5	2.9	0.9	0.7	0.5	2.8	0.9	0.5	0.9	0.9	1.4	0.9

EXERCISE: UE12

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

Part E.

RESPONSE: 03 AGE: Ad TEXT: I Don't Know.

	NATION	REGION: SOUTH EAST	REGION: WEST	REGION: CENTRAL	REGION: NORTH EAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	4.7	-0.3	-0.8	2.0	-1.1	-1.2#	1.2#	-0.1	0.1	-1.0	1.6	1.8	-2.0*	-0.5	-0.5	0.7	2.2	-1.5	-3.4#	0.4
STD ERR OF DP		1.0	1.0	1.2	1.1	0.5	0.4	2.0	0.3	0.9	1.5	1.0	0.8	1.7	1.4	0.8	1.9	1.7	1.1	1.9
STD ERR OF P	0.7	1.0	1.0	1.6	1.3	0.7	0.9	2.1	0.7	0.8	1.8	1.3	0.9	1.7	1.4	1.2	2.0	1.7	0.9	2.0

EXERCISE: UE12

Part F.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	REGION: SOUTH EAST	REGION: WEST	REGION: CENTRAL	REGION: NORTH EAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.9	0.3	-0.5	-0.3	0.6	0.2	-0.2	0.9	-0.1	-0.7#	0.1	0.6	-0.3	1.1	0.2	0.2	0.1	-0.9#	-0.9#	0.0
STD ERR OF DP		0.4	0.4	0.4	0.6	0.3	0.3	0.7	0.1	0.3	0.6	0.5	0.3	1.0	0.7	0.4	0.5	0.3	0.3	0.7
STD ERR OF P	0.3	0.3	0.3	0.4	0.7	0.5	0.3	0.8	0.3	0.1	0.5	0.7	0.3	1.1	0.7	0.6	0.5	0.0	0.0	0.7
AGE: Ad																				
DELTA-P	0.2	0.1	-0.2*	0.2	-0.0	0.0	-0.0	0.8	-0.1	-0.1	0.2	0.2	-0.2*	0.2	0.4	0.1	0.0	-0.2*	-0.2*	-0.2*
STD ERR OF DP		0.3	0.1	0.2	0.2	0.1	0.1	0.7	0.1	0.1	0.3	0.2	0.1	0.4	0.6	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.0	0.2	0.2	0.2	0.1	0.8	0.1	0.1	0.3	0.3	0.0	0.5	0.6	0.2	0.2	0.0	0.0	0.0

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	REGION: SOUTH EAST	REGION: WEST	REGION: CENTRAL	REGION: NORTH EAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	16.3	-4.8*	2.9	-0.0	1.3	6.9#	-6.6#	-12.6#	1.5#	-4.9	-10.3#	-0.5	4.4#	-10.4#	-1.5	2.7	-2.0	-5.2	-2.3	11.2#
STD ERR OF DP		2.0	2.8	1.8	2.4	1.2	1.2	1.6	0.4	3.2	1.8	1.4	1.0	2.0	3.2	2.0	2.9	2.8	2.1	4.1
P-VALUE	16.3	11.4	19.1	16.2	17.6	23.1	9.6	3.6	17.8	11.4	5.9	15.7	20.6	5.8	14.8	18.9	14.2	11.1	14.0	27.5
STD ERR OF P	1.3	2.0	3.4	1.9	3.0	2.1	1.1	1.0	1.4	3.7	1.8	1.6	1.9	1.3	3.3	2.6	2.9	2.7	2.3	4.6
AGE: Ad																				
DELTA-P	34.7	-5.6	-1.0	4.1*	1.2	11.5#	-11.2#	-27.1#	4.1#	-10.3#	-9.1#	1.9	14.6#	-20.0#	-0.6	1.6	-0.7	-3.4	-0.9	13.4#
STD ERR OF DP		3.1	2.2	1.8	2.1	1.2	1.1	2.6	0.6	2.1	2.6	2.0	2.1	3.0	4.7	1.7	5.3	3.6	2.7	3.7
P-VALUE	34.7	29.1	33.7	38.7	35.8	46.2	23.5	7.6	38.8	24.4	25.5	36.5	49.3	14.7	34.1	36.3	34.0	31.3	33.8	48.1
STD ERR OF P	1.3	3.7	2.7	1.8	2.4	2.0	1.3	2.6	1.3	2.1	3.0	2.2	2.6	2.9	4.7	2.1	6.0	3.5	2.7	3.9

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	REGION: SOUTH EAST	REGION: WEST	REGION: CENTRAL	REGION: NORTH EAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	8.3	0.4	-0.9	0.2	0.3	-2.2#	2.1#	5.4#	-1.0#	1.1	6.5#	-0.1	-1.9#	2.2	-0.4	-1.0	-1.3	2.3	2.7	-2.1
STD ERR OF DP		1.1	1.1	1.0	1.1	0.6	0.6	1.7	0.3	2.1	2.5	1.0	0.7	1.8	1.8	0.8	1.4	1.8	2.0	1.5
STD ERR OF P	0.6	1.2	1.2	1.2	1.3	0.8	0.9	1.8	0.7	2.1	2.7	1.1	1.0	1.8	1.8	0.9	1.5	1.8	2.3	1.7
AGE: Ad																				
DELTA-P	9.9	4.7#	-3.2#	0.8	-1.5	-3.5#	3.4#	7.0*	-0.8*	3.4*	0.2	0.6	-4.0#	0.5	4.8	1.1	0.0	-2.8	0.5	-5.0#
STD ERR OF DP		1.7	0.9	1.4	1.5	0.7	0.7	3.0	0.4	1.6	1.9	1.0	1.1	2.0	3.1	1.1	2.2	2.9	1.8	1.8
STD ERR OF P	0.8	1.9	0.6	1.7	1.8	0.9	1.2	3.2	0.8	2.1	1.9	1.2	1.2	2.1	3.2	1.4	2.3	3.1	1.7	1.9

EXERCISE: UE12

Part H.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	REGION: SOUTH EAST	REGION: WEST	REGION: CENTRAL	REGION: NORTH EAST	SEX: MALE	SEX: FEMALE	RACE: BLACK	RACE: WHITE	PARENTAL EDUCATION: NO HS	PARENTAL EDUCATION: SOME HS	PARENTAL EDUCATION: GRAD HS	PARENTAL EDUCATION: POST HS	SIZE-AND-TYPE OF COMMUNITY: LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.3	-0.5	0.8	0.0	-0.4	0.1	-0.1	-0.5	0.1	0.8	-1.3	0.9	-0.3	-1.2	-0.2	0.6	1.4	-2.3#	0.4	-0.8
STD ERR OF DP		0.5	0.9	0.6	0.7	0.4	0.4	0.7	0.1	1.5	0.7	0.6	0.3	0.7	1.2	0.6	1.2	0.4	1.0	0.7
STD ERR OF P	0.4	0.4	1.2	0.6	0.8	0.6	0.5	0.7	0.5	1.5	0.6	0.8	0.6	0.6	1.2	0.7	1.3	0.0	1.2	0.9
AGE: Ad																				
DELTA-P	0.3	0.6	-0.3*	-0.1	-0.0	-0.0	0.0	1.1	-0.1	0.2	0.1	-0.3*	0.1	0.3	0.6	0.0	-0.3*	-0.3*	-0.1	0.0
STD ERR OF DP		0.5	0.2	0.2	0.2	0.2	0.2	0.7	0.1	0.2	0.3	0.2	0.2	0.5	0.7	0.1	0.2	0.2	0.3	0.4
STD ERR OF P	0.2	0.7	0.0	0.2	0.2	0.3	0.2	0.8	0.1	0.3	0.3	0.0	0.3	0.5	0.9	0.2	0.0	0.0	0.2	0.4

EXERCISE: UE12

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

Part M.

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	9.2	-1.8	2.0	0.6	-1.0	4.1*	-3.9*	-8.8*	0.7	-1.7	-4.6*	-1.7	3.4*	-4.9*	-2.9	2.7*	-2.4	-2.2	-2.3	5.8*
STD ERR OF DP		1.9	1.7	1.4	1.5	0.7	0.7	1.0	0.4	4.5	1.9	1.1	1.0	1.3	1.8	1.3	2.4	3.0	2.0	2.5
P-VALUE	9.2	7.4	11.2	9.8	8.1	13.2	5.3	0.4	9.9	7.5	4.5	7.5	12.6	4.3	6.2	11.9	6.8	7.0	6.9	14.9
STD ERR OF P	0.9	2.2	2.0	1.7	1.6	1.4	0.8	0.3	1.1	4.7	1.7	1.2	1.5	0.9	1.8	1.9	2.5	3.0	2.0	2.6

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	19.6	-0.0	-3.0	3.6	-0.8	8.7*	-8.1*	-16.8*	2.9*	-9.1*	-6.2*	1.2	12.7*	-11.7*	-5.4	0.9	7.0	-0.9	-3.4	7.1*
STD ERR OF DP		2.6	1.6	1.8	1.9	1.0	0.9	1.9	0.5	1.4	2.2	1.5	2.0	2.2	3.2	1.3	4.4	3.5	2.2	3.0
P-VALUE	19.6	19.6	16.6	23.2	18.8	28.3	11.5	2.9	22.5	10.5	13.4	20.8	32.3	7.9	14.2	20.5	26.6	18.7	16.2	26.7
STD ERR OF P	1.1	3.1	1.7	2.1	2.2	1.7	1.1	1.7	1.3	1.4	2.1	1.9	2.5	2.1	3.3	1.6	4.8	3.7	2.2	3.3

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	32.3	-0.5	1.1	-3.0	2.8	-5.6*	5.3*	2.4	-0.4	2.8	6.8*	0.1	-4.1*	8.8*	-3.6	-2.8	-1.3	1.5	5.3*	-3.2
STD ERR OF DP		1.8	2.0	1.8	2.1	1.0	1.0	2.8	0.5	4.8	2.5	1.7	1.4	3.9	3.7	1.7	3.0	5.0	2.4	3.6
STD ERR OF P	1.1	1.9	2.3	2.3	2.5	1.5	1.5	2.9	1.3	5.2	2.7	1.7	1.9	4.1	3.9	1.8	3.2	5.3	2.5	4.0

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	39.1	5.2	-4.7	-2.9	3.5	-10.3*	9.6*	14.1*	-2.5*	7.3*	3.1	-2.9	-8.3*	9.3*	9.1	0.0	-0.4	-1.5	-0.5	-10.9*
STD ERR OF DP		3.2	2.4	2.5	2.0	1.1	1.1	3.8	0.6	2.3	2.7	1.9	2.0	3.9	5.1	1.8	4.5	4.8	3.5	3.5
STD ERR OF P	1.5	3.7	2.8	3.0	2.1	1.9	1.7	4.4	1.3	2.8	3.2	2.4	2.1	4.1	5.3	2.0	4.9	5.2	4.1	3.7

Report #: UE13

NAEP #: E14005-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		02-33	07-11	07-28
National P-value:				
	UE13	58.64	77.92	81.38
Timing: (in seconds)				
UE13	Exercise total:	60	60	*

*Time not limited by paced tape.

EXERCISE: UE13

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	4.3	-2.8*	8.9*	-3.3*	-2.7*	-0.3	0.3	3.2	-0.6	0.1	-0.8	-0.2	-1.2	5.5	-1.9	-3.1*	-3.9#	-0.6	12.5*	-4.4#
STD ERR OF DP		1.4	3.9	1.4	1.4	0.7	0.7	1.6	0.4	1.9	1.1	0.9	1.0	5.1	2.0	1.3	1.3	2.5	5.4	1.3
STD ERR OF P	1.3	0.7	5.1	0.7	0.6	1.3	1.6	1.9	1.4	1.7	1.4	1.7	1.5	5.1	1.8	0.5	0.3	2.8	6.5	0.0
AGE: 17																				
DELTA-P	0.8	0.2	-0.3	-0.4	0.5	0.3	-0.3	3.0#	-0.5#	-0.7#	0.9	-0.4	0.1	2.3*	-0.4	-0.5*	-0.5	1.7	0.0	-0.8#
STD ERR OF DP		0.4	0.3	0.3	0.4	0.2	0.2	0.9	0.2	0.2	0.7	0.2	0.2	1.1	0.4	0.2	0.3	0.9	0.7	0.2
STD ERR OF P	0.2	0.4	0.4	0.3	0.5	0.4	0.2	1.0	0.2	0.1	0.8	0.2	0.3	1.2	0.4	0.1	0.3	1.0	0.8	0.0
AGE: Ad																				
DELTA-P	0.1	-0.1	-0.0	-0.1	0.3	0.1	-0.1	0.1	-0.0	-0.1	0.6	-0.1	-0.1	-0.1	-0.1	0.2	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.4	0.1	0.1	0.3	0.0	0.1	0.6	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.1	0.0	0.5	0.2	0.1	0.3	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	58.6	-4.4*	-9.3#	3.1	9.9#	-1.0	1.0	-28.8#	6.7#	-19.7#	-10.7*	3.9*	10.1#	-25.1#	-8.1	2.1	1.1	1.9	-2.2	15.5#
STD ERR OF DP		1.9	3.2	2.3	2.4	1.1	1.1	2.7	0.8	4.0	4.4	1.8	1.3	4.0	4.3	1.7	3.4	3.5	5.2	4.2
P-VALUE	58.6	54.2	49.4	61.8	68.6	57.7	59.6	29.9	65.3	38.9	47.9	62.5	68.7	33.5	50.6	60.7	59.8	60.5	56.5	74.1
STD ERR OF P	1.5	1.5	4.0	2.7	2.7	1.7	2.1	2.4	1.6	4.1	4.4	2.4	1.9	3.7	4.5	1.9	3.4	3.4	5.9	4.5
AGE: 17																				
DELTA-P	77.9	-3.8	-3.9	1.0	5.7#	1.9	-1.7	-25.2#	4.9#	-7.8	-11.1#	0.0	5.6#	-17.9#	3.1	4.0*	3.6	-9.3#	1.0	0.7
STD ERR OF DP		3.2	3.2	2.1	2.1	1.0	0.9	3.3	0.9	4.0	2.9	1.4	1.2	4.6	4.1	1.9	3.6	3.9	3.4	3.8
P-VALUE	77.9	74.2	74.0	78.9	83.6	79.8	76.3	52.7	82.8	70.2	66.8	78.0	83.5	60.1	81.0	81.9	81.5	68.7	78.9	78.6
STD ERR OF P	1.5	3.6	4.0	2.2	2.2	.9	1.8	3.9	1.3	4.2	3.4	2.0	1.8	5.3	4.2	1.7	3.8	4.4	3.9	4.0
AGE: Ad																				
DELTA-P	81.4	-1.9	1.0	1.3	-0.9	-1.2	1.1	-24.1#	4.0#	-6.1#	-4.8	1.8	6.6#	-9.1*	1.5	-0.7	0.1	-1.6	5.2*	3.9
STD ERR OF DP		2.2	2.0	1.7	2.0	1.1	1.0	4.2	0.7	1.8	2.5	1.7	1.6	4.2	3.3	1.4	4.2	3.8	2.5	3.5
P-VALUE	81.4	79.5	82.4	82.7	80.5	80.2	82.4	57.3	85.4	75.3	76.5	83.2	88.0	72.3	82.8	80.6	81.5	79.8	86.6	85.2
STD ERR OF P	1.1	2.5	2.4	1.8	2.3	1.9	1.2	4.5	1.0	2.2	2.7	2.1	1.8	4.3	3.4	1.7	4.5	4.0	2.4	3.9
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	6.3	-0.2	0.7	0.0	-0.6	0.7	-0.7	5.2#	-1.3#	4.5	2.7	-1.4	-2.6#	9.5#	-1.2	-1.0	0.4	0.2	-0.3	-1.8
STD ERR OF DP		1.1	1.1	1.0	0.9	0.7	0.7	1.5	0.3	2.3	2.0	1.0	0.7	2.0	1.2	0.9	1.4	1.8	1.7	1.7
STD ERR OF P	0.6	1.2	1.4	1.1	1.0	1.1	0.8	1.7	0.7	2.4	2.3	1.0	0.7	2.1	1.3	1.0	1.4	1.9	1.9	1.9
AGE: 17																				
DELTA-P	4.5	3.9#	0.6	-0.7	-2.8#	0.1	-0.1	10.5#	-1.9#	5.9	4.6#	0.2	-3.1#	11.6#	1.6	-0.8	-2.5#	-0.6	-0.4	-4.4#
STD ERR OF DP		1.5	1.1	1.0	0.7	0.7	0.6	2.3	0.5	4.0	1.4	0.9	0.5	3.4	3.5	1.0	0.9	1.5	1.4	0.6
STD ERR OF P	0.6	1.8	1.2	1.1	0.7	0.8	1.0	2.6	0.5	4.3	1.4	1.0	0.5	3.7	3.8	0.9	0.9	1.4	1.5	0.1
AGE: Ad																				
DELTA-P	5.1	1.9	-1.4	-0.2	0.1	-1.4*	1.3*	12.8#	-2.1#	3.6#	3.3	-2.0*	-3.4#	5.0	-0.3	0.3	-0.7	-0.2	-2.3*	-1.4
STD ERR OF DP		1.4	1.0	1.3	1.2	0.6	0.5	2.9	0.5	1.2	2.1	0.8	1.0	2.7	1.6	0.9	1.9	2.1	1.1	1.8
STD ERR OF P	0.7	1.5	1.1	1.6	1.3	0.9	0.8	3.2	0.6	1.5	2.4	0.9	1.0	2.9	1.5	1.2	2.0	2.2	0.9	1.9

Report #: UE14

NAEP #: E14010-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		01-27	03-04	06-20
National P-value:				
	UF14	43.01	64.23	72.74

Timing: (in seconds)				
UF14	Exercise total:	53	55	*

*Time not limited by paced tape.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: UE14

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.5	-1.1	0.0	1.1	-0.5	-0.1	0.1	3.5	-0.8	0.4	1.6	-0.8	-0.8	9.1	-2.3*	-1.5	-0.8	-0.1	0.6	1.9
STD ERR OF DP		1.1	1.3	1.2	0.9	0.4	0.4	2.4	0.4	1.8	1.6	0.8	0.7	5.3	1.1	0.8	1.4	1.5	1.7	3.4
STD ERR OF P	0.7	1.1	1.5	1.7	0.8	0.6	0.9	2.7	0.7	1.6	1.8	0.8	1.2	5.5	0.9	0.6	1.4	1.6	1.8	3.9
AGE: 17																				
DELTA-P	1.5	0.4	0.3	-0.2	-0.4	0.2	-0.2	2.2	-0.5*	-1.1#	-1.3#	-0.3	-0.2	1.0	-0.6	0.1	0.1	-1.5#	0.7	-0.1
STD ERR OF DP		0.6	0.5	0.5	0.5	0.3	0.3	1.3	[illegible]	0.4	0.3	0.3	0.3	1.3	0.6	0.5	1.0	0.3	0.6	0.9
STD ERR OF P	0.3	0.7	0.6	0.6	0.6	0.4	0.4	1.5	[illegible]	0.3	0.2	0.4	0.4	1.3	0.5	0.5	1.1	0.0	0.7	0.9
AGE: Ad																				
DELTA-P	0.2	0.5	-0.0	-0.2	-0.2	-0.1	0.1	0.2	-0.0	-0.2	0.7	-0.0	-0.2	-0.2	1.7	-0.2	-0.2	-0.2	0.2	-0.2
STD ERR OF DP		0.6	0.2	0.2	0.2	0.2	0.1	0.4	0.1	0.2	0.8	0.2	0.2	0.2	1.7	0.2	0.2	0.2	0.4	0.2
STD ERR OF P	0.2	0.7	0.2	0.0	0.0	0.1	0.3	0.4	0.2	0.0	0.9	0.2	0.0	0.0	1.8	0.0	0.0	0.0	0.4	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	43.0	-8.6#	-6.4*	4.8	7.3#	4.6#	-4.7#	-27.8#	6.6#	-16.9#	-5.5	0.8	9.9#	-26.3#	-0.4	0.1	-0.3	-3.2	-0.2	15.6#
STD ERR OF DP		2.4	2.8	2.5	2.8	1.1	1.2	2.7	1.0	4.5	4.6	2.1	1.6	3.2	7.2	2.2	3.4	4.5	4.3	5.2
P-VALUE	43.0	34.4	36.6	47.8	50.3	47.6	38.3	15.2	49.6	26.1	37.5	43.8	52.9	16.7	42.6	43.1	42.8	39.8	42.8	58.6
STD ERR OF P	1.6	2.4	3.2	3.2	3.3	1.8	2.2	2.3	1.7	5.2	4.8	2.6	2.0	2.8	7.8	2.5	3.4	4.9	4.4	5.3
AGE: 17																				
DELTA-P	64.2	-4.1	-6.3#	0.1	8.5#	5.2#	-5.1#	-30.4#	5.7#	-12.8#	-6.5*	2.7	5.3#	-18.3*	-2.9	3.8	-3.3	-5.3	0.8	11.4#
STD ERR OF DP		2.1	2.2	2.0	2.5	1.0	1.0	3.1	1.0	3.9	3.3	1.7	1.3	7.5	3.5	2.3	3.4	5.0	3.7	3.3
P-VALUE	64.2	60.2	57.9	64.3	72.7	69.4	59.2	33.8	70.0	51.5	57.7	67.0	69.6	45.9	61.4	68.1	60.9	58.9	65.1	75.6
STD ERR OF P	1.3	2.2	2.4	2.5	2.9	1.5	1.7	3.3	1.3	4.2	3.1	2.2	1.7	7.6	3.5	2.6	3.2	5.4	4.0	3.4
AGE: Ad																				
DELTA-P	72.7	-2.8	-3.4	5.2#	-0.1	2.6	-2.5	-31.0#	5.1#	-8.5#	-8.1#	5.4#	8.4#	-16.7#	-3.7	2.7*	0.6	4.7	0.2	2.0
STD ERR OF DP		2.6	2.0	1.6	1.7	1.4	1.3	3.9	0.8	2.2	2.8	1.4	1.9	4.1	3.4	1.3	3.0	3.9	3.5	3.5
P-VALUE	72.7	70.0	69.4	77.9	72.6	75.4	70.3	41.7	77.9	64.2	64.7	78.2	81.2	56.1	69.0	75.5	73.4	77.5	73.0	74.8
STD ERR OF P	1.1	3.1	2.3	1.8	1.9	1.8	1.7	4.1	1.0	2.7	3.0	1.6	2.0	4.1	3.5	1.7	3.4	4.1	3.6	3.5
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	17.5	2.0	2.8	-0.6	-3.5*	-3.1#	3.2#	3.5	-1.3*	7.0	7.7*	-0.2	-4.8#	6.5*	0.1	0.8	0.0	2.2	-0.9	-6.5#
STD ERR OF DP		1.8	1.7	1.8	1.4	0.8	0.8	2.5	0.6	4.3	3.6	1.4	1.1	2.8	4.8	1.6	2.8	3.9	2.6	2.4
STD ERR OF P	1.0	2.0	1.8	2.4	1.4	1.0	1.6	2.5	1.1	4.8	3.8	1.6	1.1	2.8	5.2	1.6	2.8	4.4	2.4	2.4
AGE: 17																				
DELTA-P	10.3	1.4	3.3	-0.6	-3.2*	-2.8#	2.8#	13.5#	-2.8#	7.9#	5.5#	0.3	-4.4#	9.5	-0.5	-2.8#	1.8	6.0	-0.6	-4.1#
STD ERR OF DP		1.3	1.7	1.1	1.4	0.8	0.8	2.3	0.5	2.7	2.1	1.0	0.8	4.8	2.3	1.1	1.9	4.2	2.1	1.5
STD ERR OF P	0.8	1.3	1.9	1.3	1.6	0.8	1.3	2.6	0.7	2.9	2.3	1.2	0.8	5.0	2.5	1.1	1.8	4.4	2.3	1.4
AGE: Ad																				
DELTA-P	7.8	2.5	2.9	-2.9#	-1.7	-1.2	1.1	17.6#	-3.3#	8.0#	-0.4	-2.6*	-5.6#	14.9#	0.9	-2.0*	0.9	-1.7	-2.6	-2.4
STD ERR OF DP		1.9	1.8	1.1	1.1	0.7	0.6	2.8	0.5	1.5	1.4	1.1	0.9	3.5	2.5	0.9	2.8	2.4	1.5	2.0
STD ERR OF P	0.8	2.2	2.3	1.1	1.1	1.2	1.0	3.0	0.7	2.0	1.4	1.4	0.8	3.6	2.7	1.0	2.9	2.6	1.5	2.3

Report #: UE15

NAPP #: E14011-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		03-24	11-06	01-32
National P-value:				
	UE15	23.44	48.84	55.35
Timing: (in seconds)				
UE15	Exercise total:	55	53	*

*Time not limited by paced tape.

EXERCISE: UE15

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.5	-0.6	2.6	-0.1	-2.1*	0.1	-0.1	-1.1	0.0	-1.0	-1.5	-0.1	-0.4	2.1	6.2	-1.9	-1.5	-0.6	5.0	-2.9#
STD ERR OF DP		1.1	1.9	1.9	1.0	0.4	0.4	1.2	0.3	1.6	1.2	0.6	0.6	2.1	7.3	1.0	1.2	1.4	4.1	1.1
STD ERR OF P	0.9	0.9	2.3	2.5	0.6	1.0	1.0	0.6	1.1	1.4	1.6	0.9	1.3	2.0	7.9	0.5	0.8	1.1	4.6	0.5
AGE: 17																				
DELTA-P	2.1	-1.1	-0.9	0.3	1.4	0.2	-0.2	6.0#	-1.1#	-0.5	-0.3	0.3	-1.1*	4.2#	-1.3	-1.3*	-0.5	4.3	-0.8	-0.6
STD ERR OF DP		0.6	0.7	0.9	1.3	0.3	0.3	1.7	0.4	1.1	0.9	0.7	0.5	1.6	0.7	0.6	1.1	2.8	1.0	1.0
STD ERR OF P	0.5	0.3	0.5	1.1	1.7	0.7	0.6	2.1	0.3	0.9	1.0	0.8	0.4	2.0	0.5	0.3	1.0	3.2	1.1	1.0
AGE: Ad																				
DELTA-P	0.3	0.2	-0.3*	0.2	-0.1	0.0	-0.0	0.3	-0.1	0.1	0.3	-0.1	-0.3*	0.2	-0.3*	0.2	0.2	-0.3*	-0.3*	-0.3*
STD ERR OF DP		0.3	0.2	0.3	0.2	0.2	0.1	0.5	0.1	0.2	0.5	0.2	0.2	0.5	0.2	0.2	0.4	0.2	0.2	0.2
STD ERR OF P	0.1	0.3	0.0	0.4	0.2	0.2	0.2	0.6	0.2	0.3	0.6	0.2	0.0	0.5	0.0	0.3	0.5	0.0	0.0	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	23.4	-7.2#	-3.1	0.9	8.7#	2.5*	-2.3*	-15.4#	3.3#	-12.1#	-10.7#	-2.1	9.8#	-13.6#	-3.9	-2.3	7.4*	0.9	-3.9	13.2#
STD ERR OF DP		2.1	2.3	2.4	2.6	1.2	1.1	2.1	0.5	2.7	3.1	1.3	1.0	3.0	6.6	1.8	3.1	2.6	3.6	3.2
P-VALUE	23.4	16.3	20.3	24.3	32.1	25.9	21.2	8.0	26.7	11.4	12.7	21.4	33.3	9.9	19.5	21.1	30.9	24.4	19.6	36.6
STD ERR OF P	1.4	2.0	2.6	2.8	3.2	1.9	1.8	1.8	1.6	2.7	3.0	2.0	1.9	2.6	7.0	2.3	3.4	2.6	3.7	3.4
AGE: 17																				
DELTA-P	48.8	-6.8*	1.0	1.4	2.9	7.8#	-8.2#	-31.7#	6.4#	-20.0#	-18.0#	-0.9	12.5#	-25.1#	-2.6	5.6#	1.4	-6.8	4.2	5.8
STD ERR OF DP		2.8	3.5	2.1	3.0	1.4	1.5	2.3	0.8	4.1	3.1	2.0	1.6	5.0	3.9	2.2	4.3	7.4	3.4	3.2
P-VALUE	48.8	42.1	49.8	50.2	51.7	56.7	40.6	17.1	55.2	28.8	30.8	47.9	61.3	23.8	46.2	54.5	50.2	42.1	53.1	54.7
STD ERR OF P	1.6	3.0	4.5	2.0	3.5	2.4	1.8	2.6	1.5	4.4	3.1	2.2	2.3	5.3	4.1	2.6	4.3	7.4	3.8	3.0
AGE: Ad																				
DELTA-P	55.4	-3.2	0.3	3.3	-1.4	10.3#	-9.6#	-35.6#	5.5#	-10.9#	-8.3#	3.4	18.2#	-18.8#	-1.0	0.8	-1.4	-0.8	0.8	13.2#
STD ERR OF DP		3.2	2.6	2.9	2.7	1.4	1.3	3.3	0.7	2.5	2.9	1.9	1.6	4.5	5.5	2.0	4.5	4.9	5.2	3.8
P-VALUE	55.4	52.2	55.7	58.6	53.9	65.6	45.8	19.7	60.9	44.4	47.1	58.8	73.6	36.5	54.4	56.1	53.9	54.5	56.2	68.5
STD ERR OF P	1.7	3.5	2.9	3.7	2.9	2.2	1.9	3.2	1.7	3.4	3.2	2.1	2.0	4.4	5.7	2.8	4.9	5.1	5.5	3.6
RESPONSE: 03 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	15.0	-1.8	-0.2	0.6	1.1	-1.5	1.4	-2.2	0.5	-4.2	-1.9	-0.8	0.5	0.1	-1.8	-3.3#	1.8	-0.7	6.5	2.8
STD ERR OF DP		1.9	2.2	1.7	1.9	0.8	0.7	2.2	0.4	2.7	3.0	1.4	1.0	2.8	2.9	1.3	2.4	2.7	5.6	2.8
STD ERR OF P	1.1	2.1	2.7	1.9	2.1	1.2	1.5	2.3	1.3	2.8	3.0	1.7	1.6	2.9	2.8	1.3	2.5	2.8	6.3	2.9
AGE: 17																				
DELTA-P	8.4	4.2#	0.2	-0.0	-3.6#	-2.1#	2.2#	5.6*	-1.2#	3.9	6.2#	0.6	-3.2#	3.1	3.0	-1.1	-0.4	0.8	0.4	-3.4
STD ERR OF DP		1.4	1.2	1.1	1.1	0.5	0.6	2.3	0.4	2.5	2.0	1.1	0.8	2.6	2.5	1.0	1.4	2.9	2.0	2.2
STD ERR OF P	0.7	1.6	1.4	1.3	1.2	0.8	1.0	2.5	0.7	2.6	2.3	1.2	0.9	2.8	2.6	1.1	1.3	3.1	2.2	2.3
AGE: Ad																				
DELTA-P	11.2	0.8	-1.4	1.0	-0.5	-4.7#	4.4#	9.4#	-1.4#	7.3#	-2.3	-2.4*	-6.5#	6.5*	0.0	-0.1	0.8	1.8	0.5	-6.8#
STD ERR OF DP		1.7	1.3	1.8	1.8	0.8	0.8	3.1	0.4	1.6	1.6	1.1	1.0	2.7	2.6	1.3	3.0	4.0	3.8	1.5
STD ERR OF P	1.0	1.9	1.3	2.3	2.0	1.1	1.3	3.2	1.1	2.2	1.4	1.2	1.2	2.9	2.6	1.6	3.2	4.0	4.3	1.4

Report #: UE16

NAEP #: E15003-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		08-09	02-08	07-04
National P-value:				
	UE16	44.48	60.44	68.05
Timing: (in seconds)				
UE16	Exercise total:	36	31	*

*Time not limited by paced tape.

EXERCISE: UR16

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.7	-0.6#	1.0*	-0.2	-0.2	0.0	0.0	2.6#	-0.7#	-0.7#	-0.7#	0.1	-0.0	1.5	-0.5	-0.2	-0.3	0.6	0.5	-0.7#
STD ERR OF DP		0.2	0.4	0.3	0.2	0.2	0.2	1.0	0.2	0.2	0.2	0.4	0.3	1.3	0.3	0.2	0.3	0.7	0.9	0.2
STD ERR OF P	0.2	0.1	0.6	0.3	0.2	0.3	0.3	1.1	0.1	0.0	0.0	0.4	0.4	1.3	0.3	0.2	0.3	0.7	1.0	0.0
AGE: 17																				
DELTA-P	0.7	0.4	0.0	-0.5*	0.2	-0.1	0.1	1.2	-0.4#	0.5	-0.4	-0.2	-0.3	1.2	-0.7#	-0.3	-0.4	1.1	0.3	-0.7#
STD ERR OF DP		0.5	0.3	0.3	0.4	0.2	0.2	0.8	0.2	0.8	0.3	0.3	0.2	0.7	0.2	0.2	0.4	1.5	0.5	0.2
STD ERR OF P	0.2	0.6	0.4	0.2	0.5	0.2	0.3	0.9	0.2	0.8	0.3	0.3	0.3	0.8	0.0	0.2	0.4	1.6	0.6	0.0
AGE: Ad	Response did not occur at this age.																			
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	44.5	0.6	-3.6	-0.9	4.2*	2.0	-2.0	-14.3#	3.2#	-3.0	-1.2	0.6	3.2*	-13.9#	6.8	2.5	0.0	-0.5	-6.0	5.1
STD ERR OF DP		2.2	2.1	2.6	1.7	1.5	1.5	2.6	0.6	4.5	3.0	2.0	1.5	3.7	3.6	1.5	2.7	3.4	3.2	3.8
P-VALUE	44.5	45.1	40.9	43.6	48.6	46.4	42.5	30.2	47.7	41.5	43.3	45.1	47.7	30.6	51.3	47.0	44.5	44.0	38.5	49.6
STD ERR OF P	1.3	2.5	2.3	3.3	1.6	2.1	1.8	2.8	1.3	4.7	3.0	2.1	2.0	3.9	3.7	1.6	2.9	3.6	3.5	4.1
AGE: 17																				
DELTA-P	60.4	-1.2	2.8	1.4	-2.9	4.2#	-3.6#	-16.3#	4.0#	-15.5#	-5.7*	-0.4	7.5#	-9.4#	0.6	1.1	-1.6	-4.3	0.4	9.7*
STD ERR OF DP		2.6	2.4	2.4	2.8	1.5	1.3	3.5	0.8	5.1	2.7	2.0	1.5	3.6	3.5	1.9	3.9	7.7	3.2	4.7
P-VALUE	60.4	59.2	63.2	61.8	57.5	64.7	56.8	44.1	64.4	45.0	54.7	60.0	67.9	51.1	61.1	61.5	58.9	56.1	60.9	70.1
STD ERR OF P	1.5	2.8	2.5	2.8	3.5	2.2	2.0	3.7	1.6	5.6	2.7	2.6	1.8	3.7	3.5	2.4	3.9	8.1	3.6	5.1
AGE: Ad																				
DELTA-P	68.1	0.3	1.8	-1.1	-0.8	0.1	-0.1	-15.3#	3.8#	-2.6	-3.9	1.1	5.6#	-13.2#	3.2	2.9	-1.7	0.5	-3.9	2.9
STD ERR OF DP		2.6	2.1	2.2	2.4	1.3	1.2	4.4	0.8	1.8	2.8	1.9	2.0	4.8	2.3	1.7	3.9	4.6	3.9	4.3
P-VALUE	68.1	68.3	69.8	66.9	67.3	68.1	68.0	52.7	71.8	65.5	64.1	69.1	73.6	54.9	71.2	70.9	66.4	68.6	64.2	71.0
STD ERR OF P	1.3	2.8	2.4	2.7	2.8	2.0	1.7	4.7	1.2	1.9	3.1	2.4	2.4	5.2	2.0	1.8	4.2	5.1	4.1	4.7
RESPONSE: 03 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	5.5	-1.6	2.9*	-0.8	-0.4	-0.5	0.5	3.8	-1.5#	1.7	-2.5	-0.3	-1.3*	8.0*	0.5	-1.9*	-0.9	0.6	1.6	-2.0
STD ERR OF DP		1.0	1.3	1.2	1.0	0.5	0.6	2.0	0.4	2.0	1.4	0.9	0.6	3.3	1.5	0.8	1.2	1.8	1.5	1.3
STD ERR OF P	0.7	1.0	1.6	1.5	1.1	0.9	0.8	2.4	0.6	2.1	1.4	1.1	0.7	3.7	1.6	0.8	1.1	1.9	1.8	1.4
AGE: 17																				
DELTA-P	3.7	-0.1	1.1	-0.9	-0.0	-1.0*	0.9*	3.3#	-1.0#	2.4	-0.0	-0.4	-1.1*	0.8	-1.1	-1.8#	1.0	8.7#	0.2	-0.3
STD ERR OF DP		0.8	0.6	0.6	0.7	0.4	0.4	1.3	0.3	1.8	0.9	0.6	0.5	0.9	1.6	0.5	1.1	2.5	0.8	1.5
STD ERR OF P	0.4	0.9	0.6	0.6	0.9	0.5	0.6	1.5	0.3	1.9	1.0	0.6	0.5	0.9	1.7	0.5	1.1	2.6	0.9	1.6
AGE: Ad																				
DELTA-P	2.7	0.0	-0.1	-1.2*	1.4*	-0.9#	0.8*	4.8#	-1.1#	1.4	0.7	-1.5#	-0.1	2.9	-1.1	-0.9	-0.7	2.7	2.5	-2.1#
STD ERR OF DP		0.9	0.6	0.5	0.6	0.4	0.3	1.6	0.3	0.8	1.3	0.4	0.6	2.0	0.9	0.4	1.0	2.1	1.6	0.6
STD ERR OF P	0.4	1.0	0.6	0.6	0.6	0.4	0.6	1.7	0.3	0.9	1.3	0.4	0.7	2.0	1.0	0.6	1.1	2.1	1.7	0.5

1109

1108

Report #: UE17

NAEP #: E16003-12

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

		9	13
Age:			
Package-Exercise:		10-03	10-02
National P-value:			
	UE17A	92.09	95.81
	UE17B	18.93	55.48
	UE17C	22.78	51.56
	UE17E	40.02	71.84
	UE17F	46.00	56.21

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UE17

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

Part A.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.6	0.6	-0.1	-0.6#	0.1	-0.2	0.2	0.6	-0.1	1.4	-0.6#	-0.5*	-0.2	0.6	-0.1	-0.3	0.3	1.2	-0.4	-0.6#
STD ERR OF DP		0.4	0.3	0.2	0.3	0.2	0.2	0.7	0.1	1.5	0.2	0.2	0.2	0.9	0.4	0.2	0.6	0.8	0.3	0.2
STD ERR OF P	0.2	0.5	0.3	0.0	0.4	0.2	0.3	0.8	0.2	1.5	0.0	0.1	0.2	0.9	0.4	0.3	0.7	0.9	0.2	0.0

AGE: 13

Response did not occur at this age.

RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	92.1	-5.1#	0.0	2.8#	2.1	1.7*	-1.5*	-7.7#	1.3#	-5.2	-2.0	-1.1	2.0#	-1.7	-0.8	-0.8	-0.5	0.3	2.3	1.5
STD ERR OF DP		1.5	1.2	1.1	1.6	0.7	0.7	1.7	0.4	4.9	3.2	1.1	0.7	2.2	2.0	1.1	1.6	1.7	1.5	1.4
P-VALUE	92.1	87.0	92.1	94.9	94.2	93.8	90.6	84.4	93.4	86.9	90.1	91.0	94.1	90.4	91.3	91.3	91.6	92.4	94.4	93.6
STD ERR OF P	0.8	1.9	1.2	1.1	1.9	0.7	1.3	1.8	0.9	5.1	3.4	1.4	0.8	2.4	2.1	1.5	1.6	1.8	1.6	1.7

AGE: 13

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	95.8	-1.5	-0.2	0.5	0.9	1.3*	-1.3*	-4.0*	0.7*	1.0	-0.3	-0.2	0.3	-2.2	-0.2	1.3	-1.1	-1.9	0.0	0.9
STD ERR OF DP		1.2	0.7	0.7	0.8	0.5	0.5	1.8	0.3	1.3	1.3	0.7	0.6	1.5	1.3	0.7	1.2	1.2	1.1	1.4
P-VALUE	95.8	94.4	95.6	96.3	96.7	97.1	94.6	91.9	96.5	96.8	95.5	95.7	96.1	93.6	95.6	97.1	94.7	93.9	95.9	96.7
STD ERR OF P	0.5	1.4	0.8	0.7	0.9	0.6	0.8	2.0	0.5	1.3	1.3	0.9	0.7	1.6	1.3	0.9	1.4	1.3	1.1	1.5

RESPONSE: 39 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.5	0.4	0.3	-0.3	-0.4*	-0.0	0.0	1.0	-0.2	-0.5#	1.2	-0.3	0.2	-0.3	-0.2	0.1	0.3	-0.1	-0.5#	0.5
STD ERR OF DP		0.2	0.3	0.2	0.2	0.1	0.1	0.5	0.1	0.1	1.0	0.2	0.2	0.3	0.3	0.2	0.4	0.4	0.1	0.6
STD ERR OF P	0.1	0.2	0.4	0.2	0.1	0.2	0.2	0.6	0.1	0.0	1.0	0.1	0.3	0.2	0.3	0.3	0.5	0.4	0.0	0.6

AGE: 13

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.4	0.2	0.4	-0.4#	-0.1	-0.3	0.3	-0.2	-0.2	1.5	-0.4#	-0.2	-0.1	-0.4#	1.0	-0.4#	-0.2	0.5#	-0.1	0.2
STD ERR OF DP		0.2	0.4	0.1	0.2	0.2	0.2	0.2	0.1	1.1	0.1	0.2	0.1	0.1	0.9	0.1	0.2	0.2	0.2	0.6
STD ERR OF P	0.1	0.1	0.5	0.0	0.3	0.1	0.3	0.2	0.1	1.2	0.0	0.2	0.0	0.0	1.0	0.0	0.2	0.2	0.2	0.6

EXERCISE: UE17

Part B.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.5	0.0	-0.1	0.1	-0.0	-0.2	0.2	0.2	-0.1	-0.5#	0.3	-0.5#	-0.0	0.1	0.1	-0.4*	1.1	0.3	0.2	-0.5#
STD ERR OF DP		0.3	0.3	0.4	0.3	0.2	0.1	0.4	0.1	0.2	0.8	0.2	0.2	0.6	0.4	0.2	0.9	0.6	0.5	0.2
STD ERR OF P	0.2	0.4	0.3	0.5	0.4	0.2	0.3	0.5	0.2	0.0	0.9	0.0	0.3	0.6	0.4	0.1	1.0	0.6	0.5	0.0

AGE: 13

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.1	-0.1	-0.1	0.1	-0.1	0.0	-0.0	0.1	-0.0	-0.1	0.3	0.0	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.0	0.0	0.2	0.0	0.1	0.1	0.2	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	18.9	-5.0#	-3.3	1.3	7.0#	4.5#	-4.2#	-14.5#	3.5#	-8.1#	-9.3#	-2.2	7.3#	-11.5#	-4.2	1.6	0.4	-2.4	3.2	4.8
STD ERR OF DP		1.7	1.9	1.9	1.9	0.9	0.8	1.2	0.4	3.1	3.0	1.8	1.3	1.7	3.6	1.6	3.3	3.0	3.3	2.8
P-VALUE	18.9	13.9	15.7	20.2	25.9	23.5	14.8	4.5	22.4	10.9	9.7	16.8	26.2	7.5	14.7	20.5	19.3	16.6	22.2	23.7
STD ERR OF P	1.1	1.9	2.2	2.3	2.2	1.5	1.3	0.9	1.2	3.0	2.9	1.9	2.0	1.6	3.8	1.8	3.7	3.2	3.5	2.8

AGE: 13

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	55.5	-12.5#	-5.2	9.9#	4.9*	5.9#	-5.9#	-37.3#	8.1#	-28.1#	-21.7#	2.6	15.6#	-20.0#	-3.6	3.5	-3.1	-7.3*	2.6	12.7#
STD ERR OF DP		3.3	3.1	3.1	2.4	1.4	1.4	2.4	0.9	4.8	3.3	1.6	1.7	4.6	6.6	2.1	4.2	3.2	3.4	4.0
P-VALUE	55.5	43.0	50.2	65.4	60.4	61.4	49.6	18.2	63.6	27.4	33.8	58.1	71.0	35.5	51.9	59.0	52.4	48.2	58.1	68.2
STD ERR OF P	1.8	3.8	3.5	3.9	2.3	2.3	2.2	2.2	1.8	5.5	3.8	2.0	1.9	4.5	7.3	2.8	4.6	3.1	3.6	4.1

EXERCISE: UE17

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

Part B.

RESPONSE: 39 AGE: 9 TEXT: I Don't Know.

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.9	1.0*	0.1	-0.6#	-0.4	-0.5#	0.5#	1.1	-0.2	0.5	1.9	0.2	-0.3	-0.1	-0.7*	0.1	0.3	0.2	-0.1	-0.2
STD ERR OF DP		0.4	0.4	0.3	0.4	0.2	0.2	0.6	0.1	1.0	1.6	0.4	0.2	0.6	0.3	0.3	0.5	0.5	0.5	0.5
STD ERR OF P	0.2	0.5	0.5	0.2	0.4	0.2	0.4	0.7	0.2	1.1	1.7	0.5	0.2	0.7	0.2	0.4	0.6	0.6	0.6	0.4

AGE: 13

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.4	-0.1	0.6	-0.3	-0.1	-0.4*	0.4*	0.1	-0.2	1.2	-0.3	-0.2	-0.4*	0.7	1.7	-0.4#	-0.3	-0.1	-0.4#	0.2
STD ERR OF DP		0.2	0.4	0.2	0.3	0.2	0.2	0.3	0.1	1.1	0.2	0.2	0.2	0.7	1.0	0.2	0.2	0.3	0.2	0.6
STD ERR OF P	0.2	0.2	0.5	0.1	0.3	0.1	0.3	0.3	0.1	1.2	0.1	0.2	0.1	0.7	1.1	0.1	0.2	0.3	0.0	0.6

EXERCISE: UE17

Part C.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.3	0.1	-0.3*	-0.3*	0.4	-0.0	0.0	-0.1	0.0	-0.3*	-0.3*	-0.3*	-0.2	-0.3*	-0.3*	-0.3*	0.5	0.9	-0.1	-0.3*
STD ERR OF DP		0.3	0.1	0.1	0.3	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.7	0.2	0.1
STD ERR OF P	0.1	0.3	0.0	0.0	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.6	0.8	0.2	0.0

AGE: 13

Response did not occur at this age.

RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	22.8	-8.4#	-4.1	8.9#	3.2	3.6#	-3.3#	-15.6#	3.7#	-15.1#	-10.6#	0.3	5.7#	-13.7#	-4.5	-1.2	3.4	-1.4	-1.5	13.5#
STD ERR OF DP		2.1	2.7	2.9	2.1	1.2	1.1	2.0	0.5	3.1	3.6	1.9	1.2	2.4	4.8	2.1	3.7	2.9	3.3	3.1
P-VALUE	22.8	14.3	18.7	31.7	25.9	26.3	19.5	7.2	26.5	7.7	12.2	23.1	28.5	9.1	18.3	21.6	26.2	21.4	21.3	36.3
STD ERR OF P	1.5	2.1	3.2	3.5	2.2	1.9	1.9	1.4	1.0	3.2	3.6	2.2	2.0	2.3	5.2	2.5	4.0	2.9	3.7	3.5

AGE: 13

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	51.6	-10.9#	-4.9	9.5#	3.5	7.8#	-7.6#	-24.8#	5.6#	-19.7#	-19.4#	0.0	12.1#	-17.8#	-0.6	2.6	3.1	-7.3*	2.6	3.4
STD ERR OF DP		2.4	2.7	2.8	2.7	1.5	1.5	3.0	0.7	3.8	3.5	1.7	1.5	4.9	3.9	2.2	4.1	3.0	3.4	4.5
P-VALUE	51.6	40.7	46.7	61.1	55.0	59.3	43.9	26.8	57.2	31.8	32.1	51.6	63.6	33.8	50.9	54.2	54.7	44.3	54.2	55.0
STD ERR OF P	1.6	2.3	3.2	3.5	3.1	2.1	2.3	2.8	1.7	4.2	3.6	2.5	1.9	4.5	4.7	3.1	4.2	2.7	3.5	4.9

RESPONSE: 39 AGE: 9 TEXT: I Don't Know.

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.2	0.2	0.2	-0.2	-0.2	-0.1	0.1	0.1	-0.0	-0.2	0.3	-0.2	0.2	-0.2	-0.2	0.3	0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.4	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.3	0.0	0.0	0.1	0.2	0.2	0.1	0.0	0.4	0.0	0.2	0.0	0.0	0.3	0.2	0.0	0.0	0.0

AGE: 13

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.2	-0.1	0.6	-0.2	-0.2	-0.2	0.2	-0.0	-0.2	1.6	-0.2	-0.2	-0.2	-0.2	1.2	-0.2	-0.1	-0.2	0.0	-0.2
STD ERR OF DP		0.1	0.4	0.1	0.1	0.1	0.1	0.2	0.1	1.1	0.1	0.1	0.1	0.1	0.9	0.1	0.2	0.1	0.2	0.1
STD ERR OF P	0.1	0.1	0.5	0.0	0.0	0.0	0.2	0.2	0.0	1.2	0.0	0.0	0.0	0.0	1.0	0.0	0.2	0.0	0.2	0.0

EXERCISE: UE17

Part E.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.4	0.7*	-0.2	-0.4#	-0.1	-0.1	0.1	0.4	-0.0	0.1	-0.4#	-0.2	-0.0	0.3	0.1	-0.1	0.7	-0.4#	-0.4#	0.1
STD ERR OF DP		0.3	0.2	0.1	0.2	0.1	0.1	0.4	0.1	0.5	0.1	0.2	0.2	0.6	0.4	0.2	0.7	0.1	0.1	0.5
STD ERR OF P	0.1	0.5	0.2	0.0	0.3	0.2	0.2	0.5	0.2	0.5	0.0	0.2	0.2	0.7	0.4	0.2	0.8	0.0	0.0	0.4

AGE: 13

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.2	0.1	0.2	-0.2	-0.1	-0.0	0.0	-0.1	-0.1	2.0	-0.2	-0.2	-0.2	0.0	0.7	0.0	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.3	0.3	0.1	0.1	0.1	0.1	0.2	0.1	1.3	0.1	0.1	0.1	0.2	0.8	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.4	0.0	0.1	0.1	0.2	0.1	0.1	1.4	0.0	0.0	0.0	0.2	0.9	0.2	0.0	0.0	0.0	0.0

EXERCISE: UE17

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

Part E.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 10* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	40.0	-7.9#	1.2	1.7	5.2#	5.1#	-4.7#	-22.6#	4.3#	-12.7*	-13.6#	-5.9*	11.3#	-17.3#	-9.1	0.9	1.3	1.4	1.8	10.3#
STD ERR OF DP		2.7	2.2	2.2	2.1	1.2	1.1	2.3	0.6	5.1	4.6	2.4	1.7	2.7	4.7	1.6	3.8	4.2	3.2	2.9
P-VALUE	40.0	32.2	41.2	41.7	45.2	45.1	35.4	17.4	44.3	27.3	26.5	34.2	51.3	22.8	31.0	40.9	41.3	41.5	41.8	50.4
STD ERR OF P	1.3	3.3	2.5	2.5	2.2	1.9	1.6	2.8	1.3	5.4	4.5	2.6	2.4	2.8	5.2	1.8	4.2	4.5	3.5	2.9
AGE: 13																				
DELTA-P	71.8	-13.4#	-0.6	7.6#	3.4	3.5#	-3.5#	-42.7#	8.0#	-29.8#	-13.3#	3.2*	11.9#	-24.4#	-5.3	2.4	-3.4	-2.5	3.8	13.7#
STD ERR OF DP		3.6	2.2	2.2	2.0	1.1	1.1	2.5	1.0	5.2	3.0	1.6	1.4	5.7	4.5	2.0	4.5	3.2	2.7	2.7
P-VALUE	71.8	58.4	71.3	79.5	75.3	75.4	68.4	29.1	79.8	42.1	58.5	75.1	83.7	47.5	66.5	74.3	68.5	69.3	75.6	85.6
STD ERR OF P	1.4	4.4	2.3	2.5	1.9	2.1	1.6	2.7	1.4	6.1	3.4	1.6	1.2	5.9	5.2	2.4	4.8	3.3	2.8	2.5
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	0.5	0.3	-0.2	-0.3	0.1	0.1	-0.0	0.6	-0.2	0.6	-0.5#	-0.0	-0.3*	0.8	0.3	-0.2	-0.0	0.1	-0.1	-0.2
STD ERR OF DP		0.3	0.2	0.2	0.3	0.1	0.1	0.4	0.1	1.0	0.1	0.3	0.1	0.8	0.6	0.2	0.2	0.5	0.4	0.2
STD ERR OF P	0.1	0.3	0.2	0.2	0.3	0.2	0.2	0.5	0.1	1.1	0.0	0.3	0.1	0.8	0.6	0.2	0.2	0.5	0.4	0.2
AGE: 13																				
DELTA-P	0.1	-0.0	0.1	-0.1	-0.0	-0.1	0.1	0.1	-0.1	0.1	0.1	-0.1	-0.1	0.7	0.4	-0.1	0.0	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.1	0.1	0.5	0.5	0.1	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.0	0.3	0.3	0.0	0.0	0.6	0.5	0.0	0.2	0.0	0.0	0.0

EXERCISE: UE17

Part F.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.0	0.1	0.3	-0.6*	0.2	-0.2	0.2	0.9	-0.2	0.4	4.6	-0.9#	-0.5	0.3	0.5	0.1	-0.6*	0.5	-0.3	-0.2
STD ERR OF DP		0.5	0.5	0.3	0.4	0.3	0.2	0.7	0.1	0.9	3.5	0.3	0.3	0.8	0.6	0.4	0.3	0.7	0.6	0.6
STD ERR OF P	0.2	0.6	0.6	0.2	0.5	0.3	0.4	0.8	0.3	0.9	3.6	0.1	0.2	0.9	0.6	0.5	0.3	0.8	0.5	0.6
AGE: 13																				
DELTA-P	0.2	0.2	-0.2	-0.1	0.3	-0.1	0.1	0.2	0.0	-0.2	0.7	-0.2	-0.2	0.1	-0.2	0.4	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.3	0.1	0.1	0.3	0.1	0.1	0.3	0.0	0.1	0.8	0.1	0.1	0.4	0.1	0.3	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.4	0.0	0.1	0.4	0.2	0.2	0.3	0.2	0.0	0.9	0.1	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	46.0	-5.1*	-1.7	1.0	5.8*	3.1*	-2.8*	-9.0#	1.7#	0.8	-6.2	-2.2	2.2	-3.8	-5.9*	2.6	-6.6*	1.3	1.7	4.0
STD ERR OF DP		2.3	3.0	2.5	2.5	1.5	1.4	2.4	0.5	5.7	5.1	2.4	1.6	2.3	2.8	1.8	3.2	4.5	3.9	3.7
P-VALUE	46.0	40.9	44.3	47.0	51.8	49.1	43.2	37.0	47.7	46.8	39.8	43.8	48.2	42.2	40.1	48.6	39.4	47.3	47.7	50.0
STD ERR OF P	1.5	2.6	3.6	2.9	2.7	2.2	1.9	2.7	1.6	6.0	5.0	2.4	2.6	2.3	2.9	2.3	3.4	4.8	4.3	4.1
AGE: 13																				
DELTA-P	56.2	-0.5	-3.8	5.7	-2.6	0.2	-0.2	-8.5#	1.9#	-6.5	4.7	1.3	-0.4	-7.1	3.9	-1.0	-2.1	4.8	-0.2	1.3
STD ERR OF DP		2.6	2.7	3.2	3.0	1.5	1.5	3.0	0.7	4.5	3.6	1.7	1.3	3.9	6.3	2.2	3.9	3.6	2.5	3.4
P-VALUE	56.2	55.8	52.5	61.9	53.6	56.5	56.0	47.7	58.1	49.7	60.9	57.6	55.9	49.1	60.1	55.2	54.1	61.0	56.0	57.5
STD ERR OF P	1.8	2.6	2.9	4.2	3.3	2.1	2.5	3.3	2.0	4.7	3.9	2.2	2.6	4.0	7.0	2.9	4.4	3.8	2.4	3.3
RESPONSE: 03 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	4.2	1.6	0.8	-2.0#	-0.3	-0.9	0.8	0.1	0.0	-1.0	2.0	1.4	-0.7	-0.1	0.7	1.2	-2.9#	-0.3	-0.7	0.6
STD ERR OF DP		1.0	1.2	0.7	0.8	0.5	0.4	1.5	0.3	1.7	2.0	1.1	0.7	1.8	3.1	0.9	0.7	1.3	0.9	1.7
STD ERR OF P	0.6	1.2	1.5	0.6	0.8	0.8	0.6	1.3	0.7	1.8	2.1	1.3	0.9	1.9	3.2	1.1	0.4	1.4	0.9	1.9
AGE: 13																				
DELTA-P	1.1	0.7	-0.2	-0.4	0.1	-0.4	0.4	2.2*	-0.5#	0.2	-0.4	0.5	-0.8#	2.0	-0.3	-0.3	-0.5	1.4	-0.7	0.1
STD ERR OF DP		0.6	0.4	0.3	0.4	0.2	0.2	1.1	0.2	0.7	0.5	0.3	0.2	1.3	0.5	0.3	0.4	0.7	0.4	0.8
STD ERR OF P	0.2	0.7	0.4	0.3	0.4	0.2	0.4	1.2	0.2	0.7	0.6	0.4	0.2	1.4	0.5	0.3	0.5	0.8	0.4	0.8

Report #: 0E10

NAEP #: E20025-234

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		08-24	08-24	06-11
National P-value:				
	0E10	47.04	65.41	66.15

Timing: (in seconds)				
0E10	Exercise total:	29	30	*

*Time not limited by paced tape.

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                                |           REGION                |       SEX       |      RACE       |        PARENTAL EDUCATION         |               SIZE-AND-TYPE OF COMMUNITY
                        NATION  |   SOUTH                  NORTH  |                 |                 |            SOME    GRAD    POST   |     LOW EXTREME   SMALL  MEDIUM    MAIN   URBAN    HIGH
                                |    EAST    WEST CENTRAL   EAST  |    MALE  FEMALE |   BLACK   WHITE |   NO HS      HS      HS      HS   |   METRO   RURAL  PLACES    CITY BIG CTY  FRINGE   METRO

EXERCISE: UE18
This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective II.

RESPONSE: 00   AGE: 13   TEXT: No Response.
    DELTA-P                2.1    -1.3     3.0    -0.8    -0.9    -0.2     0.2  2.7**   -1.0*     1.1    -1.6     0.8    -0.9    15.9    -1.9    -1.3    -1.6    -0.1    -0.8    -1.8
    STD ERR OF DP                  1.0     2.8     1.0     1.0     0.2     0.2     0.9     0.5     1.8     1.0     0.5     0.5    10.5     1.0     1.0     1.0     1.6     1.1     1.0
    STD ERR OF P           1.0     0.4     3.8     0.5     0.3     0.9     1.1     1.3     0.5     2.7     0.4     1.4     0.6    11.4     0.3     0.3     0.3     1.3     0.6     0.3

               AGE: 17
    DELTA-P                2.0    -0.2    -0.2     0.5    -0.3    -0.1     0.1     1.8   -0.5*   4.2** -1.6**     0.0   -0.9*    2.1*    -0.3   -1.1* -2.0**    -0.5     3.1     0.6
    STD ERR OF DP                  0.8     0.6     1.0     0.8     0.3     0.3     0.9     0.2     1.6     0.6     0.5     0.4     1.0     0.7     0.5     0.5     1.0     1.9     1.5
    STD ERR OF P           0.5     0.8     0.5     1.4     0.9     0.5     0.6     1.0     0.5     1.8     0.3     0.8     0.5     1.1     0.4     0.3     0.0     1.0     2.3     1.6

               AGE: Ad
    DELTA-P                0.1     0.1     0.0    -0.1     0.0     0.1    -0.1     0.8    -0.1    -0.1    -0.1     0.1    -0.1     0.3     0.6    -0.1    -0.1    -0.1     0.3    -0.1
    STD ERR OF DP                  0.2     0.2     0.1     0.1     0.1     0.1     0.6     0.1     0.1     0.1     0.2     0.1     0.4     0.6     0.1     0.1     0.1     0.4     0.1
    STD ERR OF P           0.1     0.3     0.2     0.0     0.1     0.2     0.0     0.7     0.0     0.0     0.0     0.2     0.0     0.4     0.7     0.0     0.0     0.0     0.4     0.0

RESPONSE: 01*  AGE: 13   TEXT: All Acceptable Responses.
    DELTA-P               47.0     2.3  -8.2**     0.4     5.9   5.8**  -5.9** -34.2**   7.2** -17.4**    -5.7    -0.3  12.0** -29.6**     2.9     1.3    6.6*    -6.4    -3.7  15.3**
    STD ERR OF DP                  3.0     2.7     2.7     3.4     1.4     1.5     2.6     1.0     2.9     4.5     1.6     1.4     3.7     4.3     2.5     2.7     4.5     3.5     4.9
    P-VALUE               47.0    49.4    38.8    47.4    52.9    52.8    41.2    12.9    54.3    29.7    41.4    46.7    59.1    17.5    49.9    48.3    53.6    40.6    43.4    62.4
    STD ERR OF P           1.7     3.5     3.0     3.0     4.0     2.0     2.5     2.3     1.8     3.0     5.1     2.4     2.1     3.8     4.5     3.3     3.0     4.7     3.4     5.0

               AGE: 17
    DELTA-P               65.4   -5.8*     0.2    -1.6   5.9**   4.6**  -4.6** -36.6**   6.6** -21.9** -13.0**    -1.1   9.3** -24.8**    -0.8    -0.1     3.5     1.5     2.6  10.2**
    STD ERR OF DP                  2.8     2.4     2.9     2.0     1.2     1.3     3.0     0.9     4.8     3.9     1.3     1.1     3.5     4.5     2.2     3.4     6.9     3.0     3.4
    P-VALUE               65.4    59.6    65.6    63.8    71.4    70.0    60.8    28.8    72.0    43.5    52.4    64.3    74.7    40.6    64.6    65.3    68.9    66.9    68.0    75.6
    STD ERR OF P           1.5     3.1     2.6     3.8     1.8     1.8     2.1     3.1     1.2     5.1     4.1     2.0     1.7     3.7     4.6     2.3     3.6     7.6     3.1     3.4

               AGE: Ad
    DELTA-P               66.2    -3.6     0.7     2.0    -0.1   7.9**  -7.3** -40.3**   5.9**  -9.4**   -7.3*   4.2**  12.7** -23.7**     1.4     2.1    -1.2    -1.2    -3.8  14.2**
    STD ERR OF DP                  3.0     2.7     2.1     2.8     1.5     1.4     3.4     0.9     2.3     3.3     1.7     2.0     4.7     5.2     1.8     3.5     6.4     2.9     3.3
    P-VALUE               66.2    62.6    66.9    68.2    66.1    74.0    58.9    25.8    72.0    56.8    58.8    70.3    78.8    42.5    67.5    68.2    64.9    65.0    62.4    80.3
    STD ERR OF P           1.5     3.4     3.2     2.1     3.4     2.3     1.9     3.5     1.5     2.9     3.6     2.1     1.9     4.9     5.2     2.0     3.9     7.0     3.3     3.5

RESPONSE: 39   AGE: 13   TEXT: I Don't Know.
    DELTA-P                8.5  -3.1**     1.6    -0.4     2.0    -0.7     0.7   8.6**  -1.9**     2.8    -0.4    -0.9  -3.9**   9.2**    -3.9    -0.6   -2.9*     2.9     2.7    -3.1
    STD ERR OF DP                  1.2     1.7     1.7     2.2     0.6     0.6     3.2     0.6     2.2     1.7     1.1     0.7     3.6     2.3     1.5     1.3     3.4     2.3     2.1
    STD ERR OF P           1.0     1.0     1.9     2.0     2.7     1.1     1.3     3.7     0.9     2.4     2.1     1.3     0.8     3.9     2.2     1.8     1.1     3.8     2.6     2.2

               AGE: 17
    DELTA-P                4.0     0.8     1.8    -0.3  -1.9**    -0.6     0.6   9.4**  -1.4**    6.8*     2.0    -0.7  -1.9**    7.6*    -1.4    -0.1     0.4    -1.4    -1.4   -2.2*
    STD ERR OF DP                  0.9     1.1     0.8     0.8     0.4     0.4     2.6     0.4     3.1     1.2     0.6     0.5     3.2     1.2     0.8     0.8     1.5     0.9     1.0
    STD ERR OF P           0.5     0.9     1.3     1.1     0.8     0.7     0.7     2.8     0.4     3.3     1.4     0.7     0.4     3.5     1.2     0.9     0.8     1.5     0.9     0.9

               AGE: Ad
    DELTA-P                6.5    4.0*    -1.0    -1.4    -0.6  -2.1**   2.0**   7.6**  -1.9**   6.5**     0.7  -2.8**  -4.4**   9.1**     1.1    -0.6     1.7    -2.5    -0.5  -4.5**
    STD ERR OF DP                  1.8     1.4     1.2     1.0     0.6     0.6     2.3     0.5     1.7     1.7     1.0     1.1     3.3     3.0     0.9     2.8     1.7     1.7     1.1
    STD ERR OF P           0.7     2.1     1.6     1.3     0.9     0.9     1.0     2.5     0.7     2.2     2.0     0.9     0.7     3.5     3.2     1.2     3.0     1.7     1.7     1.1
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Report #: UE19

NAEP #: C20032-34

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		10-18	01-30
National P-value:			
	UE19	64.60	74.36

Timing: (in seconds)			
UE19	Exercise total:	39	*

*Time not limited by paced tape.

EXERCISE: UE19

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	1.1	0.2	0.5	-0.4	-0.2	-0.4	0.4	2.7*	-0.6*	0.5	0.3	0.2	-0.7*	5.4*	1.7	-0.9*	-0.7	-0.7	-0.3	-0.7
STD ERR OF DP		0.5	0.6	0.4	0.5	0.2	0.2	1.0	0.3	0.8	0.6	0.4	0.2	1.7	1.3	0.3	0.4	0.4	0.5	0.5
STD ERR OF P	0.3	0.5	0.8	0.4	0.5	0.3	0.4	1.2	0.2	0.9	0.7	0.5	0.2	1.9	1.4	0.1	0.2	0.3	0.5	0.4
AGE: Ad																				
DELTA-P	0.5	0.2	-0.3	0.2	0.[illegible]	0.1	-0.1	-0.1	0.0	0.0	0.2	-0.1	-0.1	0.1	0.6	0.0	-0.2	-0.1	-0.5*	0.0
STD ERR OF DP		0.2	0.2	0.3	0.3	0.2	0.2	0.4	0.1	0.2	0.5	0.2	0.2	0.5	0.5	0.2	0.3	0.4	0.2	0.4
STD ERR OF P	0.2	0.1	0.1	0.4	0.3	0.3	0.1	0.3	0.2	0.2	0.6	0.2	0.3	0.5	0.4	0.3	0.2	0.4	0.0	0.5
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	64.6	-10.2*	1.7	3.2	3.4	8.4*	-7.8*	-27.2*	5.[illegible]*	-22.3*	-13.8*	0.6	10.6*	-18.9*	-5.3	1.5	5.4	-8.0	0.8	12.0*
STD ERR OF DP		3.4	2.5	2.3	2.3	1.1	1.0	3.4	0.8	3.5	3.4	1.7	1.4	4.1	6.6	1.5	3.0	6.3	4.1	3.9
P-VALUE	64.6	54.4	66.3	67.8	68.0	73.0	56.9	37.4	70.2	42.3	50.9	65.2	75.2	45.7	59.4	66.1	70.0	56.6	65.4	76.6
STD ERR OF P	1.5	4.0	2.9	2.6	2.5	1.6	1.9	3.8	1.5	3.8	3.6	2.4	1.5	4.1	7.0	1.5	3.1	6.5	4.8	4.1
AGE: Ad																				
DELTA-P	74.4	-0.4	1.3	-0.6	-0.3	8.2*	-7.6*	-34.7*	5.2*	-9.5*	-5.7	5.2*	11.9*	-18.8*	3.9	-0.6	-2.0	3.7	2.4	10.0*
STD ERR OF DP		3.0	2.2	2.6	3.0	1.4	1.3	4.0	0.7	2.2	2.9	1.6	1.8	4.8	3.5	1.6	4.3	4.6	4.4	3.0
P-VALUE	74.4	74.0	75.6	73.8	74.0	82.6	66.7	39.7	79.6	64.9	68.6	79.6	86.2	55.6	78.3	73.8	72.4	78.0	76.7	84.4
STD ERR OF P	1.5	3.4	2.1	3.2	3.5	1.8	2.2	4.0	1.4	2.9	3.4	1.9	1.9	4.9	3.4	2.1	4.8	4.4	4.9	3.2
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	5.1	2.8*	-0.0	-1.4	-0.8	-1.8*	1.6*	7.2*	-1.8*	8.1*	4.3*	-0.2	-3.6*	7.0*	0.3	0.1	0.5	0.5	-2.7*	-3.0*
STD ERR OF DP		1.1	0.6	0.8	0.8	0.4	0.4	1.5	0.3	2.1	1.6	0.7	0.5	1.8	1.9	0.5	1.4	2.7	0.7	0.8
STD ERR OF P	0.5	1.3	0.6	0.9	0.9	0.5	0.7	1.7	0.5	2.2	1.8	0.9	0.4	1.8	2.1	0.7	1.6	2.8	0.7	0.8
AGE: Ad																				
DELTA-P	7.9	1.2	-0.3	-1.4	1.0	-5.1*	4.7*	19.0*	-2.9*	5.1*	3.8	-3.6*	-5.7*	12.5*	-2.4	-0.3	3.2	-0.7	-3.9*	-5.5*
STD ERR OF DP		1.8	1.6	1.2	1.5	1.0	0.9	3.5	0.7	1.6	2.8	1.0	1.0	3.8	1.5	1.0	3.4	2.7	1.7	1.6
STD ERR OF P	0.9	2.1	2.0	1.3	1.8	0.8	1.6	4.0	0.7	1.8	3.1	1.0	0.8	4.1	1.4	1.3	3.7	2.6	1.7	1.6

Report #: UE20

NAEP #: C20033-38

Content Area: E. ESTIMATION AND MEASUREMENT

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		08-23	05-13
National P-value:			
	UE20	39.36	48.44
Timing: (in seconds)			
UE20	Exercise total:	42	*

*Time not limited by paced tape.

EXERCISE: ME20

This unreleased exercise dealt with ESTIMATION AND MEASUREMENT at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	2.7	0.3	1.2	-1.0	-0.3	0.0	-0.0	-0.2	-0.4*	-0.6	-0.7	0.5	-0.6	1.5	0.1	-1.6*	-1.1	0.3	7.0	-1.6
STD ERR OF DP		1.2	2.2	0.9	0.9	0.4	0.4	1.0	0.2	0.8	0.8	0.6	0.4	1.5	1.5	0.8	0.9	1.6	5.5	1.0
STD ERR OF P	0.8	1.2	2.8	0.7	0.6	0.9	0.8	0.9	0.7	1.2	1.0	1.1	0.8	1.2	1.5	0.3	0.6	1.5	6.2	0.8
AGE: Ad																				
DELTA-P	0.4	0.6	-0.3	-0.4	0.4	-0.3	0.3	1.3	-0.2	0.5	-0.4	0.0	-0.3	0.6	-0.0	0.2	-0.4	-0.4	-0.2	-0.2
STD ERR OF DP		0.8	0.3	0.2	0.4	0.2	0.2	1.4	0.2	0.6	0.2	0.3	0.3	0.7	0.3	0.3	0.2	0.2	0.3	0.3
STD ERR OF P	0.2	1.0	0.1	0.0	0.4	0.1	0.5	1.6	0.1	0.8	0.0	0.3	0.1	0.7	0.5	0.5	0.0	0.0	0.3	0.2
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	39.4	-9.7#	-2.2	3.3	6.9#	2.9#	-2.7#	-27.5#	5.9#	-23.4#	-12.9#	-1.2	12.1#	-18.8#	-7.0	0.6	3.5	-2.0	-0.8	16.0#
STD ERR OF DP		2.9	2.6	1.9	2.0	1.1	1.0	2.3	0.7	2.7	2.6	1.8	1.4	4.0	5.3	2.2	4.2	5.2	3.8	3.8
P-VALUE	39.4	29.7	37.1	42.6	46.3	42.3	36.7	11.9	45.3	16.0	26.5	38.2	51.5	20.6	32.3	40.0	42.8	37.4	38.5	55.4
STD ERR OF P	1.4	3.4	3.1	2.0	2.2	1.8	1.6	2.3	1.4	2.7	2.8	2.0	1.9	3.9	5.5	2.3	4.7	5.4	3.9	3.8
AGE: Ad																				
DELTA-P	48.4	-0.8	-3.3	0.8	3.1	10.5#	-9.8#	-28.7#	4.9#	-11.5#	-6.8#	2.5	14.8#	-11.7#	-4.2	-1.1	-0.0	-4.5	-1.4	18.1#
STD ERR OF DP		3.7	2.4	2.9	2.3	1.1	1.0	3.6	0.8	2.2	2.6	2.4	2.0	4.3	4.3	1.9	4.5	5.5	4.2	3.9
P-VALUE	48.4	47.6	45.1	49.3	51.6	58.9	38.7	19.8	53.4	37.0	41.6	50.9	63.2	36.7	44.2	47.3	48.4	43.9	47.0	66.6
STD ERR OF P	1.6	4.4	2.5	3.6	2.4	1.8	1.9	4.0	1.6	2.8	3.0	3.1	2.1	4.3	4.8	2.6	4.9	5.7	4.3	3.8
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	11.2	-0.3	3.2*	-0.2	-2.6	-2.2#	2.0#	1.0	-0.7*	8.6#	1.0	-0.8	-2.0#	2.1	-1.7	0.1	2.5	-0.3	1.4	-3.9*
STD ERR OF DP		1.1	1.4	1.8	1.4	0.8	0.7	1.4	0.3	2.8	1.6	1.0	0.6	1.9	2.7	1.2	1.7	2.5	2.5	1.7
STD ERR OF P	0.9	0.9	1.5	2.4	1.6	1.2	1.2	1.5	0.9	3.1	1.9	1.2	1.0	2.1	2.9	1.6	1.7	2.6	2.8	1.8
AGE: Ad																				
DELTA-P	10.9	-0.0	1.1	-0.2	-0.9	-2.7#	2.5#	11.7#	-2.3#	6.6#	2.5	-2.4	-5.6#	11.9#	0.2	0.1	-1.0	-5.5#	0.5	-4.9#
STD ERR OF DP		2.3	1.9	1.4	1.2	0.9	0.9	3.2	0.6	1.5	1.6	1.3	1.2	3.1	2.7	1.2	2.4	1.7	2.4	1.4
STD ERR OF P	1.0	2.7	2.4	1.6	1.1	1.2	1.4	3.6	0.8	2.1	2.0	1.4	1.2	3.3	2.7	1.7	2.6	1.7	2.7	1.2

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Report #:       UF01

NAEP #:         F00005-23

Content Area:   F. EXPONENTS AND LOGARITHMS

Objective:      II. Perform Mathematical Manipulations.

Exercise Type:            Short answer
Scoring Type:             Semi-professional
Administration Mode:      Group

Age:                                              13       17
Package-Exercise:                                07-11    06-09
National P-value:
                          UF01                   59.55    76.30

Timing: (in seconds)
   UF01          Exercise total:                  34       32
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EXERCISE: UP01

This unreleased exercise dealt with EXPONENTS AND LOGARITHMS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.9	0.1	0.3	-0.8#	0.5	0.3	-0.3	-0.1	-0.2	0.2	0.1	-0.2	-0.7#	3.3*	0.1	-0.4	-0.3	-0.4	-0.1	-0.3
STD ERR OF DP		0.4	0.5	0.2	0.4	0.2	0.2	0.4	0.1	0.7	0.6	0.3	0.2	1.6	0.5	0.3	0.4	0.4	0.4	0.7
STD ERR OF P	0.2	0.5	0.6	0.1	0.4	0.3	0.3	0.5	0.2	0.8	0.6	0.3	0.2	1.7	0.6	0.3	0.4	0.4	0.4	0.7
AGE: 17																				
DELTA-P	0.3	-0.1	-0.1	-0.1	0.3	0.2	-0.2	0.2	-0.1	0.1	0.8	-0.1	-0.3#	-0.3#	0.1	0.0	-0.0	0.6	-0.0	-0.3#
STD ERR OF DP		0.2	0.2	0.2	0.3	0.1	0.1	0.3	0.1	0.4	0.6	0.1	0.1	0.1	0.4	0.2	0.2	0.8	0.2	0.1
STD ERR OF P	0.1	0.1	0.2	0.2	0.3	0.2	0.1	0.3	0.1	0.4	0.7	0.1	0.0	0.0	0.4	0.2	0.3	0.9	0.3	0.0
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	59.6	-5.8*	-4.7	5.6#	3.6	-2.4*	2.4*	-18.5#	3.8#	-12.1#	-12.1#	-0.3	8.8#	-19.8#	7.2	-2.9	1.0	-3.4	0.1	14.9#
STD ERR OF DP		2.5	2.5	2.1	2.7	1.1	1.0	3.3	0.8	4.1	3.2	1.7	1.2	5.7	3.8	2.1	2.2	4.2	3.6	3.5
P-VALUE	59.6	53.8	54.9	65.2	63.2	57.1	61.9	41.0	63.4	47.5	47.5	59.2	68.4	39.7	66.8	56.6	60.6	56.2	59.6	74.5
STD ERR OF P	1.4	2.7	2.8	2.5	3.2	1.8	1.7	3.4	1.6	4.5	3.3	2.1	1.6	5.9	4.3	2.5	2.3	4.2	3.7	3.6
AGE: 17																				
DELTA-P	76.3	-6.9#	0.9	3.5#	0.8	-0.6	0.5	-23.8#	4.0#	-16.2#	-13.2#	1.7	7.2#	-19.2#	-2.0	-0.2	-0.8	2.2	4.6	7.2*
STD ERR OF DP		2.0	1.6	1.4	2.1	1.2	1.1	3.3	0.6	4.0	3.0	1.4	1.1	4.8	3.8	1.5	2.8	4.1	3.1	3.1
P-VALUE	76.3	69.4	77.2	79.8	77.1	75.7	76.8	52.5	80.3	60.1	63.1	78.0	83.5	57.2	74.3	76.1	75.5	78.5	80.9	83.5
STD ERR OF P	1.0	2.3	1.6	1.3	2.7	1.5	1.6	3.3	1.2	4.2	3.0	1.8	1.3	4.8	4.0	1.8	2.7	4.4	3.4	3.2
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	3.3	0.5	0.4	-1.1	0.4	-0.2	0.2	0.0	-0.1	-1.3	0.5	1.0	-1.6#	1.6	-1.2	0.2	-0.7	-0.1	-0.5	1.3
STD ERR OF DP		0.8	0.7	0.6	1.1	0.4	0.4	1.1	0.2	0.9	1.5	0.5	0.5	2.3	1.2	0.7	0.8	0.9	1.1	1.4
STD ERR OF P	0.5	0.9	0.7	0.6	1.4	0.5	0.7	1.4	0.4	1.0	1.7	0.7	0.4	2.5	1.2	0.8	0.7	1.0	1.2	1.5
AGE: 17																				
DELTA-P	2.3	0.4	0.4	-0.7	0.1	0.2	-0.2	3.6*	-0.7#	-0.3	3.0	0.3	-1.6#	5.0	-1.4*	-0.2	-0.7	0.1	-0.3	-0.5
STD ERR OF DP		0.6	0.6	0.4	0.5	0.3	0.3	1.7	0.2	0.7	1.6	0.4	0.3	2.7	0.6	0.4	0.5	1.1	0.5	1.2
STD ERR OF P	0.3	0.7	0.7	0.5	0.6	0.5	0.4	1.8	0.3	0.7	1.7	0.5	0.3	2.9	0.5	0.5	0.5	1.1	0.5	1.2

Report #: UF02

NAPP #: F00006-23

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17
Package-Exercise:		09-16	08-25
National P-value:			
	UF02	38.80	60.27

Timing: (in seconds)

UF02	Exercise total:	44	63

EXERCISE: UP02

This unreleased exercise dealt with EXPONENTS AND LOGARITHMS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.7	0.3	0.7	-0.4*	-0.4	0.3	-0.3	0.6	-0.1	-0.7#	0.5	0.0	-0.4	-0.2	0.7	0.1	-0.2	-0.3	0.2	-0.6*
STD ERR OF DP		0.4	0.5	0.2	0.2	0.2	0.2	0.8	0.1	0.2	0.8	0.3	0.2	0.4	0.9	0.4	0.4	0.4	0.6	0.2
STD ERR OF P	0.2	0.5	0.6	0.2	0.1	0.4	0.2	0.9	0.2	0.0	0.9	0.3	0.2	0.3	0.9	0.5	0.3	0.3	0.6	0.1
AGE: 17																				
DELTA-P	1.9	-0.8	1.9	-0.5	-0.5	-0.4	0.3	-0.1	-0.2	-0.4	1.0	-0.2	-0.8#	1.3	-1.9*	-1.2	-1.3	0.6	7.4	-1.4
STD ERR OF DP		1.0	2.2	0.9	0.9	0.4	0.3	1.2	0.2	0.6	1.1	0.4	0.3	1.6	0.8	0.8	0.9	1.9	5.4	0.8
STD ERR OF P	0.8	0.8	2.8	0.8	0.7	0.8	0.9	1.1	0.7	1.0	1.4	1.0	0.6	1.6	0.0	0.4	0.6	2.9	6.1	0.4
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	38.8	-6.1	-6.4*	-0.5	13.1#	-0.3	0.3	-24.2#	4.8#	-17.1#	-15.2#	-0.1	11.3#	-13.8*	-7.4	0.3	3.3	-2.2	-2.0	16.4#
STD ERR OF DP		4.1	2.8	2.5	2.8	1.3	1.3	2.2	0.7	3.7	3.0	1.8	1.7	5.6	5.7	2.5	6.4	4.0	3.7	4.8
P-VALUE	38.8	32.7	32.4	38.3	51.9	38.5	39.1	14.6	43.6	21.7	23.6	38.7	50.1	25.0	31.4	39.1	42.1	36.6	36.8	55.2
STD ERR OF P	1.7	4.8	3.2	2.7	3.1	2.3	2.0	2.3	1.7	3.7	3.1	2.3	2.5	5.8	5.8	2.9	7.0	3.9	4.0	5.0
AGE: 17																				
DELTA-P	60.3	-10.2#	1.1	1.0	6.7#	1.9	-1.7	-30.4#	5.4#	-25.4#	-19.8#	-1.8	15.4#	-15.7#	-6.2	-1.0	1.8	-1.2	-6.8	23.1#
STD ERR OF DP		3.2	2.5	2.3	2.7	1.2	1.1	2.6	0.8	3.8	2.8	1.7	1.2	6.1	4.6	2.1	4.5	6.7	4.7	2.8
P-VALUE	60.3	50.1	61.3	61.3	67.0	62.2	58.6	29.8	65.7	34.9	40.5	58.5	75.7	44.5	54.1	59.3	62.1	59.1	53.5	83.4
STD ERR OF P	1.5	3.7	2.8	2.5	3.2	1.8	2.0	3.1	1.6	3.8	2.9	2.1	1.8	6.0	4.7	2.1	5.0	6.7	5.1	3.0
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	3.9	0.5	0.4	0.0	-0.9	-0.2	0.2	0.2	-0.0	-3.1#	0.4	0.2	-0.7	-1.0	0.5	0.9	-0.3	-2.1#	-0.0	0.5
STD ERR OF DP		0.7	0.8	0.6	0.6	0.5	0.5	0.8	0.1	0.7	1.3	0.6	0.4	1.0	1.4	0.7	1.0	0.6	1.2	1.3
STD ERR OF P	0.4	0.7	1.0	0.7	0.7	0.7	0.6	0.8	0.5	0.6	1.3	0.8	0.5	1.0	1.5	0.8	1.1	0.5	1.3	1.3
AGE: 17																				
DELTA-P	4.3	-0.7	-1.2	0.3	1.4	-0.2	0.2	4.6	-0.6	5.5#	3.7	0.2	-2.4#	1.5	-1.6	2.4#	-0.9	-0.1	-1.0	-4.2#
STD ERR OF DP		0.8	1.1	1.1	1.2	0.6	0.6	2.4	0.4	2.1	2.4	0.9	0.6	1.8	1.4	0.9	1.3	3.1	1.2	0.6
STD ERR OF P	0.6	0.7	1.2	1.3	1.5	0.8	0.9	2.7	0.6	2.3	2.6	1.1	0.6	1.9	1.4	1.2	1.3	3.4	1.3	0.0

Report #: UF03

NAEP #: F30004-3

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: I. Recall and/or Recognition of Definitions,
Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		05-16
National P-value:		
	UF03	13.20

Timing: (in seconds)
UF03 Exercise total: 18

EXERCISE: UF03

This unreleased exercise dealt with EXPONENTS AND LOGARITHMS at the level of Objective I.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.8	-1.1	0.7	-0.2	0.4	1.1*	-0.9*	2.4	-1.1*	2.5	0.7	0.1	-1.1*	3.3	0.7	-1.2	-0.4	0.5	-0.0	0.5
STD ERR OF DP		0.8	1.0	0.7	0.9	0.4	0.4	1.4	0.4	1.6	1.0	0.7	0.5	2.0	2.0	0.7	1.2	1.6	1.4	1.7
STD ERR OF P	0.5	0.8	1.2	0.8	1.1	0.7	0.6	1.5	0.5	1.6	0.9	0.9	0.7	2.0	2.1	0.9	1.2	1.7	1.5	1.7

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	13.2	-4.1*	-0.1	1.3	2.1	4.0*	-3.5*	-7.5*	1.9*	-11.9*	-6.9*	-3.9*	7.8*	-9.6*	-4.5	1.3	-1.2	-4.8	0.7	9.4*
STD ERR OF DP		1.4	1.7	1.3	2.0	0.9	0.8	1.5	0.4	1.1	2.0	1.2	0.9	1.7	2.5	1.3	1.9	2.5	2.0	4.1
P-VALUE	13.2	9.1	13.1	14.5	15.3	17.2	9.7	5.7	15.1	1.3	6.3	9.3	21.0	3.7	8.7	14.5	12.0	8.4	13.9	22.6
STD ERR OF P	0.9	1.4	1.9	1.5	2.5	1.5	0.9	1.7	1.1	0.7	1.8	1.1	1.6	1.5	2.3	1.5	1.9	2.3	1.9	4.5

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	30.4	3.2	4.0	0.5	-6.8*	-2.9*	2.5	10.2*	-2.3*	25.1*	12.7*	1.0	-10.3*	10.7*	0.8	2.2	-1.5	6.9	-2.1	-14.3*
STD ERR OF DP		2.5	3.2	2.1	2.9	1.4	1.3	3.2	0.7	3.5	3.1	1.6	1.2	4.3	3.9	2.0	3.5	4.8	4.2	3.0
STD ERR OF P	1.5	2.5	4.0	2.2	3.4	1.8	2.2	3.5	1.6	3.8	3.5	1.9	1.7	4.7	4.0	2.4	3.6	4.9	4.4	3.0

Report #: UF04

NAEP #: F30006-34

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		07-27	06-15
National P-value:			
	UF04	47.85	36.37

Timing: (in seconds)
UF04 Exercise total: 28 *

*Time not limited by paced tape.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: UF04

This unreleased exercise dealt with EXPONENTS AND LOGARITHMS at the level of Objective II.

RESPONSE: 00 AGE: 17 TEXT: No Response.	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.2	0.1	-0.6	-0.5	1.0	-0.0	0.0	2.5#	-0.5#	-1.1	0.3	-0.5	-0.4	1.9	-1.0	-0.5	-1.3*	4.5	0.1	-1.4*
STD ERR OF DP		0.6	0.6	0.5	1.0	0.3	0.3	1.0	0.2	0.6	0.9	0.5	0.4	1.5	0.7	0.5	0.6	2.8	1.1	0.6
STD ERR OF P	0.4	0.5	0.5	0.5	1.3	0.5	0.6	1.2	0.4	0.6	0.9	0.5	0.4	1.6	0.6	0.5	0.4	3.1	1.1	0.5
AGE: AD																				
DELTA-P	1.5	-0.0	1.4	-0.4	-1.0*	0.1	-0.1	-0.8	0.2	-0.4	-0.5	1.7*	-1.0*	-1.1*	3.2	-0.2	0.3	1.1	-0.2	-1.2*
STD ERR OF DP		1.0	0.7	0.6	0.4	0.3	0.3	0.6	0.1	0.4	0.8	0.7	0.5	0.5	2.3	0.4	0.7	1.6	1.0	0.6
STD ERR OF P	0.4	1.2	0.9	0.6	0.3	0.5	0.5	0.6	0.4	0.6	0.9	0.9	0.4	0.4	2.6	0.5	0.7	1.7	1.0	0.4
RESPONSE: 10* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	47.9	-3.2	-4.4	-2.9	9.8#	5.1#	-4.4#	-30.8#	6.5#	-22.7#	-20.0#	-2.0	12.8#	-21.4#	-10.6#	2.1	3.9	-6.4	1.0	20.7#
STD ERR OF DP		3.2	3.0	2.6	3.2	1.3	1.2	2.7	0.9	3.5	3.2	1.7	1.5	3.9	3.7	2.3	4.1	5.4	4.8	3.8
P-VALUE	47.9	44.6	43.4	44.9	57.7	53.0	43.4	17.1	54.3	25.2	27.9	45.9	60.6	26.4	37.3	50.0	51.7	41.4	48.8	68.5
STD ERR OF P	1.7	3.5	3.4	3.0	3.9	1.9	2.3	2.8	1.8	3.4	3.2	2.4	2.2	4.0	3.7	3.0	4.5	5.5	5.8	3.7
AGE: AD																				
DELTA-P	36.3	-3.2	3.4	-3.5	3.0	8.8#	-8.1#	-25.2#	3.6#	-14.3#	-13.0#	3.4*	21.7#	-13.5#	-15.5#	-3.0	4.5	-4.3	1.7	23.9#
STD ERR OF DP		2.1	2.3	2.1	2.0	1.2	1.0	3.4	0.5	2.0	2.1	1.7	2.1	4.6	2.5	1.6	3.9	4.8	3.2	4.3
P-VALUE	36.3	33.1	39.7	32.8	39.3	45.1	28.2	11.2	39.9	22.1	23.4	39.7	58.0	22.8	20.9	33.3	40.8	32.0	38.0	60.2
STD ERR OF P	1.2	2.2	2.7	2.5	2.2	1.7	1.6	3.3	1.2	2.2	2.4	2.0	2.4	4.6	2.6	1.8	4.4	5.1	3.1	4.4
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	15.9	-1.6	0.7	3.1*	-2.6	-1.7	1.5	1.0	-0.3	14.3#	3.5	0.5	-5.1#	7.3#	4.6	-0.8	-3.4	-1.4	1.6	-4.5
STD ERR OF DP		1.4	1.9	1.4	1.7	0.9	0.8	2.1	0.4	3.2	2.4	1.4	1.0	2.9	2.6	1.3	2.5	1.6	3.1	2.6
STD ERR OF P	0.9	1.5	2.3	1.5	2.0	1.2	1.3	2.2	1.1	3.3	2.5	1.8	1.2	2.9	2.4	1.6	2.6	1.5	3.5	2.6
AGE: AD																				
DELTA-P	37.9	0.2	-2.9	3.6	-1.2	-4.9#	4.3#	1.0	-0.5	12.0#	4.4	-2.4	-12.4#	-0.3	8.0#	2.9	-3.0	-3.6	1.5	-9.0#
STD ERR OF DP		2.3	2.3	2.8	2.2	1.4	1.3	3.6	0.6	2.1	2.5	1.7	2.3	4.0	2.4	2.1	3.7	4.4	3.8	3.2
STD ERR OF P	1.5	2.2	2.6	3.7	2.4	1.9	2.1	3.7	1.6	2.5	3.1	2.4	2.2	4.0	2.2	3.0	4.1	4.3	3.9	3.4

Report #: UF05

NAEP #: F30021-3

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		04-11
National P-value:		
	UF05	19.90

Timing: (in seconds)
UF05 Exercise total: 23

EXERCISE: UF05

This unreleased exercise dealt with EXPONENTS AND LOGARITHMS at the level of Objective II.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.5	0.0	-0.8	0.1	0.6	0.1	-0.1	-0.0	-0.1	-0.1	0.3	0.2	-0.5	0.3	-1.5*	0.3	-0.7	0.0	-0.8	2.0
STD ERR OF DP		0.7	0.4	0.4	0.6	0.3	0.3	0.7	0.2	0.8	0.7	0.5	0.4	0.9	0.3	0.5	0.6	0.8	0.6	1.5
STD ERR OF P	0.3	0.8	0.4	0.4	0.8	0.5	0.4	0.7	0.4	0.9	0.7	0.6	0.4	0.9	0.0	0.7	0.6	0.8	0.5	1.7

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	19.9	-5.2*	-3.5	-5.7*	13.2*	1.0	-1.0	-15.5*	3.1*	-16.2*	-13.9*	-4.5*	10.2*	-11.3*	-6.6	-1.5	2.4	-7.8*	2.1	17.0*
STD ERR OF DP		2.5	2.7	2.4	3.4	1.4	1.4	2.0	0.5	2.0	1.8	1.1	1.2	2.7	3.6	2.1	3.4	3.7	3.5	7.1
P-VALUE	19.9	14.7	16.4	14.2	33.1	20.9	18.9	4.4	23.0	3.7	6.0	15.4	30.1	8.6	13.3	18.4	22.3	12.1	22.0	36.9
STD ERR OF P	1.7	2.2	2.8	2.6	4.4	1.7	2.6	1.2	1.9	1.4	1.4	1.8	2.4	2.6	3.5	1.7	3.7	3.7	3.9	8.0

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	13.8	2.6	-0.4	0.7	-2.3	-2.5*	2.5*	2.6	-0.2	9.6*	10.3*	0.7	-5.2*	3.7	-0.4	1.7	-1.6	-1.5	1.6	-5.5*
STD ERR OF DP		1.8	1.5	1.6	1.6	0.8	0.8	2.1	0.4	3.9	2.7	1.1	0.9	3.3	3.4	1.4	2.1	2.7	1.8	2.6
STD ERR OF P	0.9	1.9	1.5	2.0	1.9	1.1	1.4	2.3	1.1	4.2	3.0	1.4	1.0	3.4	3.6	1.8	2.2	2.8	[illegible].8	2.7

Report #: UF06

NAEP #: F50003-34

Content Area: F. EXPONENTS AND LOGARITHMS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple part short answer using table
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		09-28	02-03
National P-value:			
	UF06A	17.88	10.32
	UF06B	8.00	12.00
Timing: (in seconds)			
UF06A	Part total:	31	*
UF06B	Part total:	25	*
UF06	Exercise total:	56	*

*Time not limited by paced tape.

EXERCISE: UP06

This unreleased exercise dealt with EXPONENTS AND LOGARITHMS at the level of Objective III.

Part A.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	5.5	0.6	1.2	0.1	-1.7	1.6#	-1.4#	3.8	-1.0*	2.8	-0.6	0.8	-0.7	2.5	-1.0	-1.8*	0.8	1.6	3.5#	-2.5*
STD ERR OF DP		0.8	0.8	1.0	0.9	0.5	0.5	2.0	0.4	1.6	1.3	0.9	0.6	1.6	1.2	0.8	2.0	2.0	1.2	1.2
STD ERR OF P	0.5	0.8	0.8	1.3	1.0	0.8	0.6	2.2	0.6	1.6	1.5	1.1	0.7	1.7	1.1	0.8	2.2	2.2	1.3	1.3
AGE: Ad																				
DELTA-P	2.8	-0.4	2.5	-1.8*	-0.2	1.1*	-1.0*	-2.5#	0.3*	0.3	-0.4	1.3	-1.7#	-2.2#	4.8	-0.8	1.1	-0.7	0.7	0.0
STD ERR OF DP		1.4	1.9	0.8	1.1	0.5	0.5	0.8	0.1	0.6	1.2	0.9	0.7	0.8	4.1	0.5	1.6	1.5	2.1	1.7
STD ERR OF P	0.8	1.5	2.5	0.4	1.1	1.2	0.6	0.3	0.9	1.0	1.3	1.5	0.5	0.6	4.6	0.6	1.7	1.5	2.3	1.8
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	17.4	-3.2	-1.4	-2.0	5.9#	3.6#	-3.4#	-8.9#	2.2#	-12.6#	-9.8#	-3.8*	7.9#	-7.2*	-7.3#	-2.6	4.5	0.5	1.4	9.8*
STD ERR OF DP		2.2	2.1	2.0	2.2	1.0	1.0	1.8	0.4	1.6	1.4	1.6	1.2	3.0	2.5	1.6	3.3	3.2	2.9	4.0
P-VALUE	17.8	14.3	16.1	15.5	23.3	21.1	14.1	8.5	19.7	4.8	7.7	13.7	25.4	10.3	10.1	14.9	22.0	18.0	18.9	27.3
STD ERR OF P	1.2	2.4	2.4	2.4	2.5	1.8	1.4	1.8	1.4	1.4	1.5	1.9	1.9	3.0	2.3	1.8	3.6	3.4	3.2	4.5
AGE: Ad																				
DELTA-P	18.3	-0.9	0.3	1.2	-0.9	8.4#	-7.8#	-13.2#	2.1#	-8.1#	-6.8#	1.3	13.1#	-10.1#	-3.2	-1.6	5.3	1.2	-1.8	9.9#
STD ERR OF DP		2.4	2.6	2.0	2.4	1.2	1.0	2.2	0.4	1.6	1.9	1.6	2.2	2.0	3.7	1.6	3.8	4.9	3.6	3.6
P-VALUE	18.3	17.4	18.6	19.5	17.4	26.7	10.5	5.1	20.4	10.2	11.6	19.6	31.4	8.2	15.2	16.7	23.6	19.6	16.5	28.2
STD ERR OF P	1.4	2.6	3.2	2.3	2.8	2.0	1.4	2.0	1.5	1.8	1.9	2.1	2.7	1.8	3.9	2.1	4.0	5.0	4.0	4.0
RESPONSE: 03 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	22.1	0.7	5.5*	0.0	-5.5#	-1.0	0.9	-0.8	-0.4	7.3*	11.9#	1.1	-5.5#	2.2	5.3	-1.4	3.8	-3.6	0.4	-2.7
STD ERR OF DP		1.6	2.6	2.0	1.8	0.9	0.9	2.5	0.5	3.2	3.7	1.7	1.1	3.0	2.7	1.5	3.5	4.0	3.4	2.8
STD ERR OF P	1.2	1.4	3.2	2.4	1.9	1.6	1.4	2.7	1.2	3.6	3.8	2.1	1.4	3.1	2.7	1.7	3.9	4.3	3.9	2.7
AGE: Ad																				
DELTA-P	43.0	1.0	-2.1	1.8	-0.7	-11.0#	11.0#	7.0*	-1.8#	11.9#	2.6	-2.5	-14.9#	12.2#	3.1	3.1*	-3.3	-5.0	-5.8	-8.2*
STD ERR OF DP		2.1	1.9	2.4	2.0	1.0	1.0	3.6	0.7	2.2	2.5	1.4	2.5	4.4	3.4	1.5	3.4	5.3	4.0	3.4
STD ERR OF P	1.2	2.2	2.0	3.2	2.2	1.6	1.5	3.7	1.4	2.5	2.7	2.3	2.5	4.8	3.3	1.9	3.8	5.5	4.4	3.5

EXERCISE: UP06

Part B.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	8.9	0.7	0.8	-1.3	0.1	1.2	-1.1	6.1*	-1.7#	1.0	-3.8*	1.1	-0.7	4.5	-0.5	-2.2*	0.2	4.3	2.5	-3.5*
STD ERR OF DP		1.2	1.1	1.4	1.2	0.7	0.7	2.7	0.7	1.8	1.5	0.9	0.7	3.4	2.0	1.0	2.3	2.2	1.9	1.5
STD ERR OF P	0.7	1.3	1.1	1.8	1.4	1.2	0.8	3.0	0.7	1.8	1.6	1.2	1.0	3.6	2.0	0.9	2.4	2.4	2.2	1.5
AGE: Ad																				
DELTA-P	3.6	-0.0	2.0	-1.7	-0.1	1.0	-1.0	-0.6	0.1	0.3	0.2	1.0	-1.6*	0.2	4.4	-1.0	0.5	-1.1	0.6	-0.2
STD ERR OF DP		1.6	2.0	1.0	1.2	0.6	0.5	1.7	0.2	0.8	1.2	1.0	0.8	2.0	4.1	0.6	1.7	1.7	2.3	1.7
STD ERR OF P	0.8	1.8	2.6	0.7	1.2	1.2	0.7	1.8	0.9	1.2	1.5	1.5	0.8	2.1	4.6	0.8	1.7	1.6	2.6	1.8
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	8.1	-2.2	-1.6	-1.7	5.0#	2.9#	-2.7#	-5.4#	1.5#	-7.1#	-4.3#	-2.1	4.2#	-5.3#	-3.7*	-1.2	4.0*	2.1	-0.2	4.2*
STD ERR OF DP		1.4	1.2	1.2	1.5	0.8	0.7	1.1	0.3	0.9	1.1	1.1	9.7	1.8	1.8	0.9	2.0	2.3	2.2	1.9
P-VALUE	8.1	5.9	6.5	6.3	13.1	11.0	5.4	2.7	9.6	1.0	3.8	6.0	12.3	2.8	4.4	6.9	12.1	10.1	7.9	12.3
STD ERR OF P	0.8	1.6	1.2	1.3	1.9	1.3	0.7	1.3	0.8	0.5	1.1	1.2	1.2	1.7	1.8	1.1	2.2	2.5	2.3	2.1
AGE: Ad																				
DELTA-P	12.0	-1.4	1.4	-0.5	0.4	7.5#	-6.9#	-10.2#	1.8#	-7.5#	-4.3#	1.8	9.5#	-7.9#	-5.2	-0.4	2.9	4.0	1.7	2.9
STD ERR OF DP		2.0	1.8	1.9	1.9	0.9	0.9	1.4	0.3	1.3	1.5	1.6	1.8	1.5	2.6	1.3	3.3	4.3	3.4	2.8
P-VALUE	12.0	10.6	13.4	11.5	12.4	19.5	5.1	1.8	13.8	4.5	7.7	13.8	21.5	4.1	6.8	11.7	14.9	16.0	13.7	14.9
STD ERR OF P	1.1	2.1	2.1	2.4	2.1	1.7	0.9	1.3	1.3	1.2	1.8	2.1	2.2	1.4	2.9	1.5	3.4	4.6	3.7	3.2

EXERCISE: UP06

This unreleased exercise dealt with EXPONENTS AND LOGARITHMS at the level of Objective III.

Part B.

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
AGE: 17																				
DELTA-P	30.7	1.3	7.4#	-0.6	-7.0#	-2.3*	2.1*	-0.8	-1.0	15.0#	13.3#	-0.1	-7.0#	1.4	3.1	-0.8	1.2	-3.5	4.1	-3.9
STD ERR OF DP		1.5	2.2	1.9	1.6	1.1	1.0	2.7	0.5	2.9	3.7	1.8	1.2	4.0	3.2	1.5	3.2	4.4	3.6	2.6
STD ERR OF P	1.1	1.3	2.6	2.4	1.7	1.5	1.5	2.9	1.2	3.3	3.9	2.2	1.3	4.0	3.4	1.7	3.5	4.8	4.0	2.6
AGE: Ad																				
DELTA-P	48.6	0.6	-2.3	1.0	0.8	-13.2#	12.3#	4.4	-1.4	13.1#	5.5*	-3.0	-16.8#	13.9#	3.4	1.6	0.6	-4.8	-6.1	-8.4*
STD ERR OF DP		2.6	2.1	2.3	2.8	1.1	1.1	4.5	0.8	2.2	2.4	1.9	2.5	4.5	3.9	1.6	3.3	5.3	4.2	3.5
STD ERR OF P	1.4	2.9	2.2	2.7	3.3	1.8	1.5	4.8	1.5	2.6	2.8	2.4	2.5	4.9	4.0	2.0	3.5	5.5	4.5	3.7

Report #: UG01

NAEP #: G10003-238

Content Area: G. ALGEBRAIC EXPRESSIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		03-05	09-16	02-32
National P-value:				
	UG01	13.62	51.32	26.76
Timing: (in seconds)				
UG01	Exercise total:	31	30	*

*Time not limited by paced tape.

EXERCISE: UG01

This unreleased exercise dealt with ALGEBRAIC EXPRESSIONS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	4.0	-0.9	1.1	-0.2	-0.2	0.2	-0.2	1.6	-0.5	-1.6	0.5	0.2	-0.9*	3.1	-0.8	-0.7	-0.7	0.9	1.2	-0.8
STD ERR OF DP		0.8	1.1	0.7	0.9	0.4	0.4	1.1	0.3	1.3	1.7	0.5	0.4	2.0	1.4	0.7	1.2	1.6	1.9	1.1
STD ERR OF P	0.5	0.9	1.4	0.7	1.0	0.6	0.7	1.2	0.5	1.4	1.7	0.7	0.6	2.1	1.4	0.8	1.2	1.7	2.1	1.1
AGE: 17																				
DELTA-P	1.7	1.2	-0.3	-0.4	-0.3	0.2	-0.2	0.4	-0.2	0.6	-0.1	0.8	-0.8*	0.1	1.1	-0.4	-0.8	2.2	0.8	-1.4#
STD ERR OF DP		0.7	0.6	0.5	0.6	0.3	0.3	0.8	0.2	0.6	1.0	0.6	0.4	0.9	1.0	0.5	0.6	1.4	1.2	0.4
STD ERR OF P	0.3	0.9	0.6	0.5	0.7	0.6	0.4	0.9	0.4	0.7	1.1	0.8	0.4	0.9	1.0	0.5	0.6	1.6	1.3	0.2
AGE: Ad																				
DELTA-P	1.7	-0.1	1.0	-0.3	-0.7	0.6	-0.6	-0.7	0.2	0.6	-1.0	0.8	-0.9	-1.7#	4.0	-0.5	0.4	1.3	0.1	-1.1
STD ERR OF DP		1.2	1.4	0.7	0.7	0.5	0.4	1.1	0.2	0.7	0.6	0.7	0.6	0.6	4.1	0.4	1.3	1.8	1.7	0.7
STD ERR OF P	0.6	1.3	1.9	0.7	0.5	1.0	0.4	1.0	0.7	0.9	0.4	1.3	0.4	0.0	4.5	0.5	1.4	1.9	1.9	0.5
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	13.6	-3.7	-4.7#	-0.3	8.5#	-3.2#	3.0#	-7.0#	1.7#	-7.1#	-4.2	-1.3	5.1#	-9.9#	-4.8	-1.4	3.3	2.4	0.5	7.5
STD ERR OF DP		2.5	1.5	1.6	2.6	1.0	0.9	1.7	0.4	2.3	2.3	1.1	1.0	[illegible]	3.3	1.3	4.1	3.1	3.1	3.9
P-VALUE	13.6	9.9	9.0	13.4	22.1	10.4	16.6	6.7	15.3	6.6	9.5	12.3	18.7	[illegible]	8.8	12.3	17.0	16.0	14.2	21.1
STD ERR OF P	1.2	2.9	1.2	1.6	3.2	1.2	1.8	1.5	1.4	2.0	2.6	1.2	1.9	1.2	3.4	1.7	4.7	2.9	3.2	4.2
AGE: 17																				
DELTA-P	51.3	-4.5	-1.1	-4.7	9.6#	-0.2	0.2	-19.4#	4.1#	-20.0#	-20.0#	-6.1#	13.7#	-16.2#	-4.1	0.4	2.2	-5.0	0.3	14.6#
STD ERR OF DP		2.5	2.1	2.5	2.3	1.2	1.2	2.5	0.8	3.2	2.9	1.5	1.3	4.5	5.0	2.2	4.2	4.2	3.4	3.7
P-VALUE	51.3	46.8	50.2	46.7	61.0	51.1	51.5	31.9	55.4	31.4	31.3	45.3	65.0	35.1	47.2	51.7	53.5	46.4	51.6	65.9
STD ERR OF P	1.4	2.8	2.2	3.2	2.5	2.0	1.6	2.7	1.6	3.2	2.7	2.1	1.9	4.2	5.1	2.5	4.5	4.5	3.4	4.2
AGE: Ad																				
DELTA-P	26.8	-2.1	1.7	-4.7*	5.7*	6.4#	-6.0#	-13.6#	2.3#	-9.4#	-4.6	-2.2	18.4#	-11.0#	-8.7#	-1.3	-0.8	0.0	3.9	13.8#
STD ERR OF DP		2.0	2.6	1.9	2.3	1.2	1.1	2.7	0.5	1.8	2.7	1.9	2.1	3.5	3.2	1.7	3.2	5.2	3.8	3.6
P-VALUE	26.8	24.7	28.5	22.0	32.4	33.2	20.9	13.1	29.1	17.4	22.1	24.5	45.2	15.8	18.1	25.5	26.9	26.8	30.7	40.5
STD ERR OF P	1.3	1.9	3.2	2.1	2.7	1.7	1.7	2.7	1.4	2.0	3.0	2.3	2.4	3.3	3.2	2.2	3.5	5.5	3.8	3.9
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	34.0	-1.0	3.7	0.6	-3.7	0.5	-0.4	-10.3#	2.8#	-5.0	-4.8	-2.9	3.5*	-6.0	-2.0	1.2	9.1*	-10.3#	4.7	-2.6
STD ERR OF DP		2.6	3.2	2.4	2.7	1.1	1.0	2.8	0.6	4.0	3.2	1.7	1.4	4.0	6.2	2.4	3.7	3.4	5.7	4.0
STD ERR OF P	1.6	2.7	4.0	2.7	3.1	2.0	1.7	2.7	1.8	4.3	3.4	2.1	2.3	3.9	6.4	3.1	3.7	3.4	6.3	4.3
AGE: 17																				
DELTA-P	13.0	2.0	2.0	-0.4	-2.9	-1.6*	1.5*	4.1	-0.8	8.7#	10.8#	2.1	-6.4#	[illegible]	-3.0	-0.5	-3.0	1.2	1.2	-1.3
STD ERR OF DP		1.7	1.6	1.8	1.5	0.8	0.7	2.7	0.5	2.7	2.4	1.2	0.9	[illegible]	1.8	1.3	1.7	3.7	2.3	3.1
STD ERR OF P	1.0	1.9	1.7	2.3	1.7	1.1	1.3	3.1	1.0	2.9	2.8	1.5	0.9	3.8	1.6	1.6	1.7	4.0	2.6	3.3
AGE: Ad																				
DELTA-P	42.8	1.8	-2.0	2.6	-2.6	-10.7#	10.0#	-2.1	-0.2	11.0#	5.1	0.6	-19.0#	1.9	2.6	5.2#	-3.2	-1.8	3.7	-17.5#
STD ERR OF DP		2.2	2.1	2.6	2.6	1.4	1.3	4.0	0.7	2.3	2.9	1.8	1.5	5.0	4.8	1.8	3.6	5.1	4.1	2.8
STD ERR OF P	1.4	2.2	2.2	3.3	3.1	1.8	2.0	4.5	1.5	2.7	3.2	2.1	1.9	5.5	5.1	2.1	3.5	5.4	4.3	3.1

Report #: 0002

NAEP #: G20002-23

Content Area: G. ALGEBRAIC EXPRESSIONS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17
Age:			
Package-Exercise:		07-29	02-29
National P-value:			
	0002	18.59	43.39

Timing: (in seconds)
0002 Exercise total: 36 44

EXERCISE: UG02

This unreleased exercise dealt with ALGEBRAIC EXPRESSIONS at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	8.4	-1.6	2.3	1.8	-2.7	0.9	-0.8	3.2	-0.7	[illegible]	1.0	0.2	-1.5*	1.0	3.9	-3.2*	-0.1	1.7	6.2	-4.7#
STD ERR OF DP		1.6	2.7	2.4	1.5	0.6	0.5	2.3	0.4	[illegible]	2.1	1.0	0.7	3.2	6.3	1.3	2.3	4.3	4.2	1.7
STD ERR OF P	1.2	1.3	3.3	3.1	1.3	1.5	1.2	2.3	1.4	2.2	2.4	1.6	1.4	2.9	7.0	0.9	2.5	4.6	4.5	1.3
AGE: 17																				
DELTA-P	6.6	0.3	-2.9	2.9	-0.8	0.6	-0.5	8.1*	-1.0#	1.4	2.7	0.1	-3.1#	4.0	-1.4	-3.7*	-3.9*	21.0#	3.9	-4.8#
STD ERR OF DP		2.7	1.7	3.1	1.6	0.7	0.6	3.3	0.7	2.8	2.3	1.1	1.0	2.6	2.4	1.5	1.6	7.8	5.9	1.6
STD ERR OF P	1.4	3.0	1.1	4.2	1.2	1.7	1.4	3.6	1.6	2.7	3.3	2.2	0.8	2.5	2.0	1.1	0.9	8.2	7.0	0.4
RESPONSE: 10* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	18.6	-6.9#	0.8	4.4*	0.7	-2.0*	1.9*	-13.7#	3.2#	-5.6	-8.7#	-3.5*	7.9#	-12.2#	4.4	-1.9	3.1	-6.2#	1.0	8.6*
STD ERR OF DP		2.4	2.3	2.2	2.9	1.0	1.0	1.5	0.5	3.9	2.5	1.4	1.6	3.1	4.3	2.1	3.6	2.4	2.9	4.3
P-VALUE	18.6	11.7	19.4	23.0	19.2	16.6	20.5	4.9	21.8	13.0	9.9	15.1	26.5	6.4	23.0	16.7	21.7	12.4	19.6	27.2
STD ERR OF P	1.4	2.5	2.5	2.5	3.6	1.4	2.0	1.3	1.6	4.0	2.7	1.6	2.6	3.0	4.6	2.5	3.9	2.3	3.1	4.7
AGE: 17																				
DELTA-P	43.4	-10.1#	-0.6	4.2	4.0	-0.5	0.4	-34.6#	7.2#	-18.5#	-15.6#	-4.3*	15.3#	-21.9#	-0.1	1.6	3.2	-16.6#	-0.8	26.3#
STD ERR OF DP		3.3	2.7	3.2	2.9	1.3	1.1	2.3	1.1	4.1	3.2	2.0	1.8	4.0	5.3	2.1	4.4	6.6	5.5	3.2
P-VALUE	43.4	33.3	42.8	47.5	47.4	42.9	43.8	8.7	50.6	24.9	27.8	39.1	58.6	21.5	43.3	44.9	46.6	26.8	42.6	69.7
STD ERR OF P	1.8	3.6	2.7	4.1	3.4	2.2	2.1	2.0	2.0	4.3	3.9	2.4	2.3	4.2	5.4	2.4	4.6	6.4	6.0	3.3
RESPONSE: 19 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	21.5	4.7	1.1	-4.9#	0.1	-2.0*	1.9*	6.4*	-1.8#	6.0	5.6	-0.7	-5.5#	14.0*	-5.8*	3.0	-2.9	1.4	-4.6	-3.0
STD ERR OF DP		2.4	2.1	1.9	2.1	0.9	0.9	3.0	0.6	5.3	3.8	1.6	1.2	5.8	2.8	2.1	2.9	3.3	2.9	3.2
STD ERR OF P	1.3	2.9	2.4	2.2	2.5	1.2	1.9	3.4	1.4	5.8	4.0	2.1	1.4	5.9	2.9	2.6	3.1	3.6	2.9	3.4
AGE: 17																				
DELTA-P	12.0	4.6#	0.6	-0.9	-3.2*	0.5	-0.4	9.0#	-1.9#	17.5#	6.1*	-1.0	-6.2#	8.5#	1.3	0.4	-0.4	-0.2	-2.8	-6.9#
STD ERR OF DP		1.7	1.5	1.9	1.5	1.2	1.0	2.5	0.6	6.5	2.7	1.2	1.1	2.3	2.3	1.5	2.5	2.4	1.9	1.9
STD ERR OF P	1.0	1.9	1.6	2.5	1.7	1.8	1.1	2.6	1.1	7.2	2.7	1.2	0.9	2.3	2.2	2.1	2.6	2.4	1.9	1.9

Report #: WG03

NAEP #: G43005-3

Content Area: G. ALGEBRAIC EXPRESSIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		03-23
National P-value:		
	WG03	30.41

Timing: (in seconds)
WG03 Exercise total: 37

EXERCISE: UG03

This unreleased exercise dealt with ALGEBRAIC EXPRESSIONS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	2.4	0.3	-1.1*	0.2	0.4	-0.1	0.1	0.5	-0.3	-1.5*	-0.2	0.3	-1.0*	3.1	-0.2	0.2	-1.2*	0.2	-0.0	-1.4*
STD ERR OF DP		0.6	0.4	0.5	0.8	0.3	0.3	1.0	0.2	0.6	1.1	0.6	0.4	2.4	0.9	0.5	0.6	1.3	0.9	0.7
STD ERR OF P	0.3	0.6	0.4	0.5	1.0	0.4	0.5	1.0	0.4	0.5	1.0	0.6	0.4	2.5	0.8	0.6	0.6	1.4	1.0	0.7
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	30.4	-5.6*	-2.6	-6.5*	14.3*	2.8*	-2.7*	-23.3*	4.2*	-18.9*	-15.8*	-2.8	11.6*	-16.9*	-13.3*	2.2	-3.0	-8.9	5.7	20.8*
STD ERR OF DP		2.7	2.7	2.6	2.5	1.0	1.0	1.8	0.7	2.5	2.6	1.7	1.5	4.7	3.3	2.0	3.8	5.1	4.0	4.6
P-VALUE	30.4	24.8	27.8	23.9	44.7	33.2	27.7	7.1	34.6	11.5	14.6	27.7	42.0	13.5	17.1	32.6	27.4	21.6	36.1	51.2
STD ERR OF P	1.5	3.1	3.1	3.3	2.3	1.9	1.6	1.6	1.7	2.3	2.1	2.1	2.4	4.5	3.5	2.4	4.1	5.4	4.1	4.9
RESPONSE: 03 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	14.9	2.7	0.1	0.3	-2.6	-0.8	0.8	-0.9	-0.2	14.9*	3.9	2.6*	-7.2*	2.1	1.9	1.7	0.8	-0.6	-3.0*	-4.3*
STD ERR OF DP		1.6	1.4	1.5	1.8	0.9	0.9	2.3	0.4	3.8	2.4	1.3	0.9	4.3	3.4	1.5	2.1	2.7	1.5	2.0
STD ERR OF P	0.9	1.8	1.4	1.9	2.2	1.4	1.2	2.4	1.0	4.1	2.6	1.7	0.7	4.4	3.6	2.0	2.1	2.8	1.5	1.9

Report #: UG04

NAEP #: G44007-3

Content Area: G. ALGEBRAIC EXPRESSIONS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		08-04
National P-value:		
	UG04	19.95

Timing: (in seconds)

UG04	Exercise total:	25

EXERCISE: 0604

This unreleased exercise dealt with ALGEBRAIC EXPRESSIONS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	4.5	0.7	2.2*	-1.0	-1.6	1.0*	-0.9*	0.5	-0.2	-1.0	4.6*	-0.1	-1.8#	0.0	-0.5	0.2	-0.6	-0.7	2.4	-1.1
STD ERR OF DP		1.3	1.0	1.0	0.9	0.5	0.5	1.4	0.3	1.6	2.0	0.8	0.7	1.8	2.0	0.8	1.1	1.5	2.8	1.5
STD ERR OF P	0.6	1.5	1.2	1.1	1.0	0.9	0.7	1.4	0.7	1.7	2.4	0.9	0.8	1.9	2.2	1.0	1.1	1.4	3.0	1.6
RESPONSE: 10* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	20.0	-4.7*	-3.4	-4.2#	12.1#	1.6	-1.5	-11.2#	2.3#	-13.6#	-10.8#	-3.4*	9.5#	-4.5	-5.5	-1.9	0.5	0.1	-2.1	13.5#
STD ERR OF DP		2.0	1.9	1.7	1.9	1.1	1.0	1.9	0.8	2.1	2.2	1.5	1.2	4.6	3.3	1.5	3.4	4.0	3.2	3.6
P-VALUE	20.0	15.3	16.5	15.7	32.0	21.6	18.5	8.8	22.3	6.3	9.2	16.6	29.5	15.5	14.5	18.0	20.4	20.0	17.8	33.4
STD ERR OF P	1.1	2.2	2.2	1.9	2.2	1.6	1.4	1.9	1.2	1.9	2.1	1.7	1.0	4.7	3.5	1.4	3.7	4.2	3.2	3.8
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	34.9	3.5	1.0	3.3	-7.7#	-3.9#	3.6#	6.8*	-1.2*	16.3#	11.3#	3.8*	-10.7#	5.1	2.9	2.7	4.4	-4.1	0.1	-14.9#
STD ERR OF DP		2.5	2.7	3.2	2.5	1.2	1.1	3.2	0.5	4.1	3.3	1.6	1.3	3.7	9.8	2.2	4.0	4.8	4.7	3.5
STD ERR OF P	1.7	2.5	2.9	4.1	2.8	1.9	2.1	3.3	1.9	4.1	3.6	2.3	2.0	3.7	10.7	2.1	4.2	4.8	4.9	3.5

Report #: UN01

NAEP #: N11002-12

Content Area: N. EQUATIONS AND INEQUALITIES

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		04-28	04-10
National P-value:			
	UN01	3.29	29.25

Timing: (in seconds)			
UN01	Exercise total:	35	35

EXERCISE: UH01

This unreleased exercise dealt with EQUATIONS AND INEQUALITIES at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.5	-0.3	1.1	-0.4	-0.3	0.5	-0.5	1.5	-0.5*	1.5	-2.0#	1.0	-1.2#	1.3	3.4	-0.1	-0.3	0.8	-1.5*	-1.4
STD ERR OF DP		0.6	0.9	0.7	0.7	0.4	0.4	1.0	0.3	1.9	0.7	0.9	0.5	1.4	1.9	0.6	1.3	1.4	0.6	0.7
STD ERR OF P	0.4	0.5	1.0	0.9	0.8	0.6	0.6	1.1	0.5	2.2	0.5	1.1	0.5	1.4	2.1	0.7	1.4	1.5	0.6	0.7
AGE: 13																				
DELTA-P	1.4	-0.3	0.2	0.3	-0.2	0.2	-0.2	2.5*	-0.5#	1.2	-0.6	0.7	-1.1#	2.0#	-0.1	-0.2	-0.2	-1.4#	0.3	0.0
STD ERR OF DP		0.5	0.5	0.6	0.4	0.2	0.2	1.1	0.2	1.2	0.5	0.5	0.3	1.0	0.6	0.5	0.7	0.3	0.7	0.9
STD ERR OF P	0.3	0.5	0.6	0.7	0.4	0.4	0.4	1.2	0.3	1.3	0.6	0.7	0.2	1.1	0.6	0.5	0.8	[illegible]	0.8	1.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	3.3	-0.0	0.1	-0.6	0.6	0.7	-0.7	1.6	-0.5*	-0.6	-1.2	-0.1	1.2	4.4*	-0.1	-1.1	-0.0	-0.5	-0.2	1.0
STD ERR OF DP		1.0	0.9	0.7	1.0	0.4	0.4	0.9	0.2	1.2	1.2	0.7	0.7	2.2	1.3	0.6	1.3	1.3	1.0	1.6
P-VALUE	3.3	3.3	3.4	2.7	3.9	4.0	2.6	4.9	2.8	2.7	2.1	3.2	4.5	7.7	3.2	2.2	3.3	2.8	3.1	4.3
STD ERR OF P	0.5	1.1	0.9	0.8	1.2	0.7	0.6	1.0	0.5	1.3	1.1	0.8	1.0	2.4	1.4	0.5	1.4	1.2	1.0	1.9
AGE: 13																				
DELTA-P	29.3	-2.7	-4.6	-3.7	10.8#	-2.2*	2.3*	-18.6#	4.4#	-11.8#	-2.4	-3.6*	11.1#	-15.1#	-7.3*	4.9*	-1.9	0.7	1.0	8.8
STD ERR OF DP		2.8	2.4	3.0	3.3	1.1	1.1	2.1	0.6	3.8	3.6	1.7	1.4	2.7	3.3	2.4	4.8	5.1	4.3	7.1
P-VALUE	29.3	26.6	24.7	25.6	40.1	27.1	31.5	10.7	33.7	17.5	26.9	25.6	40.3	14.1	22.0	34.1	27.4	29.9	30.3	38.0
STD ERR OF P	1.8	2.9	2.4	3.6	4.2	1.9	2.2	1.9	1.9	3.9	4.2	2.3	2.4	2.2	3.3	3.0	5.3	5.5	4.8	7.5
RESPONSE: 19 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	17.6	1.2	0.9	-1.7	-0.0	-2.4*	2.3*	1.7	-0.6	-0.0	-1.2	-2.8	-4.4#	-3.7	-2.9	2.5	-3.4	2.9	-0.6	-0.4
STD ERR OF DP		2.0	1.8	1.6	1.6	1.0	0.9	2.7	0.4	3.2	3.3	1.6	1.5	3.3	3.0	1.4	2.1	2.6	1.9	2.4
STD ERR OF P	1.0	2.4	2.1	1.8	1.7	1.4	1.4	3.0	1.0	3.2	3.3	1.7	1.5	3.5	3.1	1.8	2.2	2.8	1.8	2.7
AGE: 13																				
DELTA-P	2.6	0.0	0.9	-0.1	-0.8	-0.6*	0.6*	0.8	-0.6	1.2	-0.5	-0.1	-1.0	3.4	-0.3	-0.2	-0.3	-0.4	-0.2	-0.9
STD ERR OF DP		0.8	0.9	0.7	0.6	0.3	0.3	1.0	0.3	2.2	1.1	0.6	0.5	1.9	1.1	0.5	0.8	1.0	0.9	1.1
STD ERR OF P	0.4	0.9	1.1	0.8	0.7	0.4	0.6	1.0	0.4	2.3	1.2	0.7	0.5	2.0	1.1	0.7	0.8	1.1	1.0	1.2

Report #: UH02

NAEP #: H11007-234

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		06-19	02-04	05-19
National P-value:				
	UH02	63.82	76.82	55.87
Timing: (in seconds)				
UH02	Exercise total:	47	46	*

*Time not limited by paced tape.

EXERCISE: UH02

This unreleased exercise dealt with EQUATIONS AND INEQUALITIES at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	1.2	0.1	0.7	-0.3	-0.5	0.3	-0.3	3.2*	-0.6*	1.5	0.1	-0.6	-0.2	2.4*	-0.6	-0.7*	1.0	1.9	-0.3	-0.9*
STD ERR OF DP		0.4	0.4	0.4	0.4	0.3	0.2	1.2	0.2	1.6	0.7	0.3	0.3	1.1	0.6	0.3	0.8	1.0	0.6	0.4
STD ERR OF P	0.2	0.5	0.5	0.5	0.4	0.4	0.3	1.3	0.2	1.7	0.7	0.3	0.3	1.2	0.6	0.2	0.9	1.1	0.7	0.4
AGE: 17																				
DELTA-P	0.6	-0.0	-0.1	0.0	0.1	-0.2	0.2	1.2	-0.3*	-0.0	-0.0	0.3	-0.4	0.8	-0.2	-0.3	-0.1	1.5	0.1	-0.6*
STD ERR OF DP		0.3	0.3	0.3	0.3	0.2	0.2	0.7	0.1	0.5	0.4	0.3	0.2	0.7	0.4	0.2	0.4	1.2	0.4	0.2
STD ERR OF P	0.2	0.3	0.3	0.4	0.4	0.2	0.3	0.7	0.1	0.6	0.4	0.4	0.2	0.8	0.4	0.2	0.4	1.3	0.5	0.0
AGE: Ad																				
DELTA-P	0.8	0.7	0.5	-0.7*	-0.4	-0.1	0.1	2.1	-0.3	0.6	-0.2	-0.4	-0.3	-0.5	1.2	0.0	0.7	0.1	-0.5	-0.8*
STD ERR OF DP		0.6	0.7	0.3	0.3	0.3	0.3	1.3	0.2	0.7	0.4	0.3	0.3	0.4	1.1	0.4	1.0	0.8	0.3	0.3
STD ERR OF P	0.3	0.7	0.9	0.1	0.3	0.4	0.4	1.4	0.2	0.9	0.3	0.2	0.3	0.3	1.1	0.5	1.2	0.8	0.3	0.0
RESPONSE: 10* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	63.8	-9.8*	-6.5*	7.0*	7.5*	-2.2	2.1	-34.0*	5.9*	-11.0*	-8.1*	-1.4	9.6*	-26.0*	0.8	0.2	-0.5	-4.4	3.6	13.4*
STD ERR OF DP		2.7	3.2	2.5	2.6	1.2	1.1	3.1	0.7	4.5	3.4	1.7	1.7	5.7	5.1	2.0	4.2	4.0	3.5	3.8
P-VALUE	63.8	54.0	57.3	70.8	71.3	61.6	65.9	29.9	69.7	52.8	55.8	62.4	73.4	37.8	64.6	64.0	63.3	59.4	67.4	77.2
STD ERR OF P	1.6	2.7	3.8	3.1	2.9	2.2	1.7	3.1	1.6	5.0	3.6	2.4	1.9	5.8	5.6	2.5	4.5	3.9	3.5	4.0
AGE: 17																				
DELTA-P	76.8	-9.4*	-2.0	4.2*	4.6*	2.6*	-2.2*	-28.9*	6.6*	-19.9*	-10.3*	-1.4	10.6*	-18.9*	-7.5	2.3	2.2	-4.1	2.9	14.0*
STD ERR OF DP		3.1	2.0	2.1	1.8	1.2	1.1	3.3	1.0	4.9	2.7	1.8	1.4	4.5	4.2	1.4	3.5	5.4	3.4	2.3
P-VALUE	76.8	67.5	74.9	81.0	81.4	79.4	74.6	47.9	83.5	56.9	66.5	75.4	87.5	58.0	69.3	79.1	79.0	72.7	79.7	90.8
STD ERR OF P	1.3	3.6	2.1	2.5	2.0	1.7	1.7	3.6	1.1	5.2	3.3	2.1	1.3	4.8	4.4	1.7	3.7	5.4	3.5	2.2
AGE: Ad																				
DELTA-P	55.9	-3.4	0.3	1.7	0.7	5.7*	-5.3*	-28.0*	4.7*	-12.5*	-6.7*	2.8	15.5*	-20.7*	-9.7*	-0.5	0.7	7.4	-4.3	20.3*
STD ERR OF DP		3.0	2.3	2.5	2.5	1.3	1.2	4.2	0.7	2.2	2.5	2.0	1.9	4.4	4.0	1.7	4.1	4.6	3.5	3.1
P-VALUE	55.9	52.5	56.2	57.5	56.5	61.5	50.6	27.9	60.6	43.4	49.2	58.6	71.4	35.2	46.2	55.4	56.5	63.2	51.6	76.2
STD ERR OF P	1.5	3.4	2.5	3.1	2.8	2.0	1.9	4.3	1.4	2.6	2.9	2.5	2.2	4.3	4.3	2.4	4.6	4.7	3.8	3.0
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	5.3	-0.1	2.8	-1.2	-1.4	0.4	-0.4	1.9	-0.6*	1.1	0.9	0.1	-1.7*	8.7*	-0.3	-0.4	1.5	-1.2	-1.8	-2.7*
STD ERR OF DP		1.2	1.6	0.9	0.9	0.6	0.5	1.6	0.3	2.3	1.7	0.7	0.5	2.3	1.9	1.0	1.1	1.2	1.0	1.1
STD ERR OF P	0.7	1.3	2.0	0.8	0.8	1.0	0.7	1.6	0.7	2.4	1.9	0.9	0.8	2.5	2.1	1.3	1.2	1.0	0.9	1.0
AGE: 17																				
DELTA-P	3.6	1.9	1.2	-0.5	-2.0*	-0.4	0.4	4.7*	-1.1*	2.3	2.0	0.1	-1.9*	2.1	1.1	-0.5	0.8	-2.3	1.7	-3.4*
STD ERR OF DP		1.2	0.7	0.7	0.5	0.5	0.4	1.5	0.3	1.7	1.3	0.7	0.5	1.5	2.0	0.5	1.3	1.2	1.3	0.5
STD ERR OF P	0.4	1.4	0.8	0.8	0.5	0.6	0.7	1.6	0.5	2.0	1.4	0.8	0.4	1.6	2.1	0.7	1.3	1.2	1.5	0.3
AGE: Ad																				
DELTA-P	16.9	3.1	-2.4	-1.5	1.4	-3.6*	3.4*	9.1*	-1.8*	8.6*	0.8	-1.4	-9.1*	11.2*	5.1	0.0	-5.7*	-1.0	3.2	-8.2*
STD ERR OF DP		2.0	1.6	2.1	1.9	0.8	0.8	3.8	0.6	1.8	1.8	1.5	1.5	3.7	4.1	1.6	2.4	2.8	2.4	2.0
STD ERR OF P	1.1	2.3	1.8	2.6	2.1	1.5	1.3	4.0	1.1	2.3	2.1	2.0	1.3	4.0	4.4	2.0	2.4	3.0	2.4	2.0

Report #: HH03

NAPP #: N11015-34

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		07-18	06-24
National P-value:			
	HH03	35.51	24.72

Timing: (in seconds)			
HH03	Exercise total:	34	*

*Time not limited by paced tape.

1164

EXERCISE: UN03

This unreleased exercise dealt with EQUATIONS AND INEQUALITIES at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	5.7	1.7	-0.7	0.9	-1.6	-0.1	0.1	5.6#	-0.9#	-2.2	2.5	1.1	-1.0	3.9*	1.0	0.4	-0.7	2.5	-2.1	-3.8#
STD ERR OF DP		1.3	1.1	0.8	0.9	0.5	0.4	1.7	0.3	1.2	2.2	0.8	0.6	1.6	2.1	1.0	1.2	1.8	1.4	1.0
STD ERR OF P	0.6	1.5	1.3	0.9	1.1	0.8	0.7	1.8	0.6	1.2	2.4	1.0	0.7	1.6	2.2	1.2	1.2	1.9	1.5	0.9
AGE: Ad																				
DELTA-P	1.6	0.7	1.3	-1.1#	-0.6	0.0	-0.0	-0.3	0.1	-0.4	0.2	0.4	-0.4	-1.1	3.8	0.4	-0.1	-0.1	-0.8	-1.6#
STD ERR OF DP		1.3	0.7	0.4	0.5	0.3	0.3	0.7	0.1	0.4	0.8	0.6	0.6	0.6	2.9	0.4	0.6	1.0	0.7	0.4
STD ERR OF P	0.4	1.6	0.9	0.2	0.4	0.4	0.6	0.8	0.4	0.6	1.1	0.6	0.5	0.5	3.2	0.6	0.4	1.1	0.6	0.0
RESPONSE: 10* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	35.5	-5.0	-2.6	-4.2	10.7#	2.8	-2.4	-10.3#	3.4#	-23.3#	-12.5#	-3.3	11.0#	-14.6#	-12.9#	2.4	0.6	-0.9	1.9	15.0#
STD ERR OF DP		3.0	2.6	2.4	2.1	1.4	1.2	2.5	0.6	2.4	2.5	2.2	1.6	2.7	2.9	2.1	3.4	4.2	3.7	4.8
P-VALUE	35.5	30.5	33.0	31.4	46.2	38.3	33.1	17.2	38.9	12.2	23.0	32.2	46.5	20.9	22.6	37.9	36.1	34.7	37.4	50.5
STD ERR OF P	1.5	3.4	3.0	2.8	2.4	1.9	2.0	2.3	1.7	2.4	2.6	2.6	2.2	2.4	3.1	2.6	3.6	4.5	3.8	5.1
AGE: Ad																				
DELTA-P	24.7	-0.4	-0.6	-1.9	3.0	6.8#	-6.4#	-17.9#	2.3#	-8.4#	-15.0#	2.4	17.0#	-11.1#	-11.6#	-4.0#	5.8	-4.0	-0.7	23.3#
STD ERR OF DP		1.9	2.0	1.8	1.9	1.3	1.2	2.1	0.5	1.7	1.5	1.7	1.7	3.1	2.1	1.3	3.1	3.9	2.8	3.7
P-VALUE	24.7	24.3	24.1	22.8	27.7	31.6	18.4	6.9	27.0	16.3	9.8	27.1	41.7	13.6	13.2	20.8	30.6	20.7	24.1	48.0
STD ERR OF P	1.1	2.1	2.4	2.2	2.1	1.9	1.5	2.0	1.2	1.8	1.4	2.1	2.0	3.0	1.8	1.6	3.4	4.2	2.9	3.9
RESPONSE: 19 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	27.7	1.3	4.1*	2.6	-7.6#	0.6	-0.5	1.9	-0.5	7.9#	10.6#	[illegible]	-6.7#	8.1*	-2.7	-1.0	3.2	-4.7	3.4	-6.0
STD ERR OF DP		2.6	1.9	1.7	1.6	1.2	1.1	2.6	0.4	3.0	2.6	1.6	1.3	3.4	3.3	1.5	2.7	2.6	3.6	4.7
STD ERR OF P	1.1	3.1	2.1	2.0	1.8	1.7	1.5	2.6	1.3	3.2	3.0	1.8	1.6	3.3	3.5	1.9	2.8	2.7	3.8	5.0
AGE: Ad																				
DELTA-P	52.6	-1.1	-4.5	4.4	0.5	-8.0#	7.5#	3.8	-0.6	9.7#	13.0#	-3.6	-16.8#	14.8#	8.9#	3.0	-11.8#	-0.3	2.8	-15.9#
STD ERR OF DP		2.3	2.4	2.8	2.1	1.3	1.1	3.9	0.6	1.9	2.6	1.9	2.3	3.9	3.1	2.1	3.7	4.6	4.1	3.6
STD ERR OF P	1.5	2.3	2.8	3.8	2.0	2.0	1.7	4.0	1.6	2.4	3.1	2.7	2.2	3.9	3.0	2.9	3.8	4.6	4.3	3.8

Report #: UH04

NAEP #: H11025-234

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		02-08	01-25	01-24
National P-value:				
	UH04	61.79	81.21	64.04

Timing: (in seconds)		13	17	Adult
UH04	Exercise total:	61	59	*

*Time not limited by paced tape.

1167

EXERCISE: UN04

This unreleased exercise dealt with EQUATIONS AND INEQUALITIES at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.0	-0.6	0.7	-0.3	0.2	0.3	-0.3	0.6	-0.3#	-0.5	-0.3	-0.0	-0.4*	1.2	0.4	-0.5	-0.7	0.4	1.4	-1.0#
STD ERR OF DP		0.4	1.1	0.5	0.5	0.3	0.2	0.6	0.1	0.6	0.6	0.3	0.2	0.9	0.7	0.4	0.4	0.7	2.0	0.4
STD ERR OF P	0.4	0.2	1.4	0.4	0.5	0.6	0.3	0.5	0.4	0.5	0.5	0.5	0.4	0.9	0.7	0.3	0.1	0.7	2.3	0.0
AGE: 17																				
DELTA-P	0.8	-0.5*	-0.4	-0.4	1.2	-0.3*	0.3*	2.4	-0.4	-0.6	0.0	-0.7#	-0.4	2.8	-0.6	-0.6*	0.2	1.9#	-0.5	-0.6
STD ERR OF DP		0.3	0.3	0.4	0.6	0.2	0.1	1.3	0.3	0.3	0.7	0.3	0.3	2.1	0.3	0.3	0.8	0.6	0.3	0.3
STD ERR OF P	0.2	0.1	0.2	0.4	0.8	0.2	0.3	1.5	0.2	0.2	0.5	0.1	0.2	2.2	0.2	0.1	0.9	0.7	0.3	0.1
AGE: Ad																				
DELTA-P	0.4	-0.4	0.3	0.1	0.0	0.1	-0.1	-0.4	0.1*	0.4	0.2	-0.1	-0.4	0.1	1.6	-0.0	-0.2	-0.4	-0.4	-0.4
STD ERR OF DP		0.2	0.5	0.3	0.3	0.1	0.1	0.2	0.0	0.3	0.6	0.2	0.2	0.5	1.8	0.3	0.3	0.2	0.2	0.2
STD ERR OF P	0.2	0.0	0.7	0.4	0.3	0.3	0.3	0.0	0.3	0.5	0.6	0.3	0.0	0.5	2.0	0.3	0.2	0.0	0.0	0.0
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	61.8	-7.8#	0.1	3.9	2.6	0.7	-0.7	-30.8#	7.3#	-18.6#	-8.4*	0.2	11.3#	-29.5#	-6.5	-0.3	2.4	-6.2*	9.7#	14.6#
STD ERR OF DP		2.6	2.6	2.4	2.3	1.1	1.1	3.0	0.9	3.9	3.6	2.2	1.2	4.6	7.0	2.0	3.3	2.9	2.8	3.4
P-VALUE	61.8	54.0	61.9	65.7	64.4	62.5	61.1	31.0	69.0	43.2	53.4	62.0	73.1	32.3	55.3	61.5	64.2	55.6	71.5	76.4
STD ERR OF P	1.4	2.9	3.1	2.9	2.5	1.7	1.9	2.9	1.4	4.5	4.0	2.3	1.7	4.8	7.5	2.0	3.6	2.9	2.9	3.6
AGE: 17																				
DELTA-P	81.2	-3.4	1.2	3.3	-1.7	2.4#	-2.3#	-25.2#	5.2#	-17.0#	-10.5#	0.2	8.3#	-19.1#	-6.7	1.6	0.5	-9.7*	7.0#	9.9#
STD ERR OF DP		2.4	2.6	2.0	2.7	0.9	0.9	3.2	0.8	3.7	3.0	1.4	1.4	4.3	4.2	1.8	2.7	3.9	2.8	2.3
P-VALUE	81.2	77.8	82.4	84.6	79.5	83.6	78.9	56.0	86.4	64.3	70.7	81.5	89.5	62.1	74.5	82.8	81.7	71.5	88.2	91.1
STD ERR OF P	1.4	2.5	3.1	1.9	3.4	1.6	1.8	3.4	1.5	3.8	3.4	1.9	1.2	4.6	4.3	2.6	2.7	4.0	2.9	1.8
AGE: Ad																				
DELTA-P	64.0	-3.4	1.6	2.5	-1.7	7.3#	-6.8#	-28.0#	5.1#	-15.6#	-6.5*	8.3#	16.3#	-20.6#	-0.1	1.3	2.5	1.5	0.5	7.3#
STD ERR OF DP		2.9	2.5	2.6	2.2	1.4	1.3	3.6	0.7	2.7	2.7	2.1	1.9	4.1	4.4	1.7	4.1	5.4	6.1	2.9
P-VALUE	64.0	60.6	65.7	66.5	62.3	71.3	57.3	36.0	69.1	48.4	57.5	72.3	80.4	43.4	64.0	65.4	66.6	65.5	64.5	71.4
STD ERR OF P	1.5	3.2	2.8	3.3	2.2	2.1	1.9	3.8	1.5	3.3	3.0	2.1	2.0	4.3	4.3	1.8	4.4	5.6	6.9	3.0
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	3.1	1.2	-0.8	-0.5	0.2	-0.1	0.0	3.0#	-1.1#	4.3*	0.7	-1.3#	-1.5#	5.3#	0.5	-0.7	-0.5	1.4	-1.4	-0.6
STD ERR OF DP		0.8	0.6	0.5	0.8	0.4	0.4	1.3	0.3	1.9	1.2	0.5	0.4	1.6	1.4	0.5	0.9	1.2	0.7	1.3
STD ERR OF P	0.4	1.0	0.6	0.5	0.9	0.5	0.6	1.4	0.4	2.0	1.2	0.5	0.4	1.6	1.4	0.6	0.9	1.3	0.7	1.4
AGE: 17																				
DELTA-P	2.3	1.0	-0.7	0.1	-0.2	-0.3	0.3	1.6	-0.6#	2.6	3.0	-0.2	-1.7#	3.7*	3.8	-0.4	-0.2	0.6	-2.0#	-1.0
STD ERR OF DP		0.9	0.5	0.6	0.7	0.3	0.3	0.9	0.2	2.0	1.5	0.4	0.4	1.7	2.3	0.5	1.0	1.3	0.4	1.1
STD ERR OF P	0.4	1.0	0.5	0.7	0.8	0.5	0.5	0.9	0.4	2.2	1.7	0.5	0.2	1.8	2.4	0.6	1.0	1.4	0.1	1.1
AGE: Ad																				
DELTA-P	15.9	1.2	0.4	-1.0	-0.3	-7.5#	7.0#	10.0#	-2.2#	8.7#	1.4	-3.6#	-9.9#	6.4*	-3.8	1.2	2.8	1.6	-1.2	-8.3#
STD ERR OF DP		2.2	2.1	1.9	1.7	1.2	1.0	3.2	0.6	1.6	2.4	1.4	1.1	3.0	2.3	1.2	3.7	4.6	3.0	2.2
STD ERR OF P	1.2	2.4	2.6	2.4	1.7	1.2	1.9	3.6	1.1	2.2	2.5	1.7	1.0	3.3	2.2	1.6	4.1	4.9	3.1	2.2

Report #: UH05

NAEP #: H12012-3

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type:	Short answer	
Scoring Type:	Semi-professional	
Administration Mode:	Group	
Age:		17
Package-Exercise:		04-14
National P-value:		
	UH05	17.24

Timing: (in seconds)
UH05 Exercise total: 64

EXERCISE: UN05

This unreleased exercise dealt with EQUATIONS AND INEQUALITIES at the level of Objective II.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	8.5	-0.7	-1.1	1.5	-0.2	1.6#	-1.6#	1.8	-0.3	2.4	0.8	0.1	-1.7*	3.3	-2.3	-0.4	-2.0	4.2	2.2	-3.0
STD ERR OF DP		1.3	1.2	1.3	1.8	0.6	0.6	1.9	0.3	1.5	1.9	0.9	0.8	2.1	1.5	1.0	1.2	2.8	2.2	1.8
STD ERR OF P	0.8	1.3	1.1	1.5	2.3	1.1	0.9	1.9	0.9	1.8	1.9	1.3	0.9	2.2	1.5	1.2	1.2	2.9	2.7	2.1
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	17.2	-5.6*	-2.3	0.9	5.2*	0.8	-0.8	-13.2#	2.8#	-12.7#	-8.8#	-3.7#	7.9#	-10.5#	0.8	-2.9	2.4	3.1	-0.3	9.3#
STD ERR OF DP		2.4	1.9	2.4	2.3	1.0	1.0	1.5	0.4	1.7	2.3	1.4	1.4	2.4	4.7	1.8	2.9	4.0	2.6	3.2
P-VALUE	17.2	11.6	14.9	18.2	22.4	18.0	16.4	4.1	20.0	4.5	8.4	13.6	25.2	6.8	18.0	14.4	19.7	20.3	17.0	26.6
STD ERR OF P	1.3	2.5	1.8	3.2	2.6	1.7	1.7	1.1	1.5	1.8	2.5	2.0	1.9	2.3	5.2	2.0	3.1	4.3	2.8	3.3
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	24.9	0.9	2.2	2.3	-5.1*	-3.5#	3.5#	0.6	0.1	9.8*	11.5#	1.5	-5.6#	4.3	-0.2	2.1	-0.9	-4.0	1.9	-6.8
STD ERR OF DP		2.6	1.9	2.1	2.1	1.2	1.3	3.1	0.5	4.0	3.0	1.8	1.3	3.8	3.7	1.9	2.9	3.2	2.8	4.4
STD ERR OF P	1.2	2.9	2.0	2.6	2.4	1.6	1.9	3.4	1.4	4.2	3.3	2.2	1.7	4.1	3.9	2.3	3.0	3.3	2.8	4.8

Report #: UH06

NAEP #: N12023-12

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		07-08	08-10
National P-value:			
	UH06	25.56	74.70

Timing: (in seconds)

UH06	Exercise total:	38	31

EXERCISE: UH06

This unreleased exercise dealt with EQUATIONS AND INEQUALITIES at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	4.5	0.5	-0.4	-0.3	0.2	0.4	-0.4	3.6*	-1.2#	3.7	3.4	-2.2#	-1.8#	4.0	3.6	-0.7	-2.1*	2.1	-0.1	-2.6#
STD ERR OF DP		0.8	1.1	1.0	1.3	0.4	0.4	1.5	0.4	2.2	2.6	0.6	0.7	2.4	3.0	0.7	1.0	2.4	1.3	0.9
STD ERR OF P	0.6	0.8	1.2	1.1	1.6	0.7	0.8	1.8	0.5	2.3	2.9	0.6	0.7	2.5	3.2	0.9	0.8	2.6	1.3	1.0
AGE: 13																				
DELTA-P	0.9	-0.3	-0.3	0.1	0.5	0.2	-0.2	2.0	-0.5#	-0.3	0.1	0.1	-0.6#	3.6	-0.7	-0.4	-0.2	-0.6	-0.0	-0.5
STD ERR OF DP		0.3	0.3	0.4	0.6	0.2	0.2	1.0	0.2	0.4	0.7	0.4	0.2	1.9	0.7	0.3	0.4	0.3	0.5	0.4
STD ERR OF P	0.2	0.2	0.3	0.5	0.7	0.3	0.3	1.2	0.2	0.4	0.7	0.4	0.2	2.0	0.7	0.2	0.4	0.3	0.6	0.4
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	25.6	-7.5#	1.1	3.2	2.4	2.4#	-2.4#	-8.0#	2.0#	3.1	-6.1*	2.1	5.7#	-9.3#	-3.7	-0.8	-1.6	2.3	0.1	9.0
STD ERR OF DP		1.8	2.3	2.3	3.1	0.9	0.8	2.1	0.5	4.1	3.0	2.5	1.8	3.5	4.6	2.6	2.7	4.3	3.2	4.8
P-VALUE	25.6	18.1	26.7	28.8	27.9	28.0	23.2	17.6	27.6	28.6	19.5	27.7	31.3	16.2	21.8	24.7	24.0	27.8	25.7	34.6
STD ERR OF P	1.5	1.7	2.4	2.7	3.9	1.7	1.6	2.0	1.7	3.9	3.1	3.2	2.5	3.4	4.7	3.0	2.6	4.8	3.4	5.3
AGE: 13																				
DELTA-P	74.8	-2.3	-6.7#	4.6	4.3	-3.4#	3.5#	-24.4#	5.4#	-11.8#	-10.2#	-0.2	10.7#	-20.0#	-5.7	-1.0	3.6	4.1	-1.7	15.0#
STD ERR OF DP		2.4	2.3	2.7	2.9	1.1	1.1	3.4	0.8	3.6	4.0	1.5	1.1	5.9	4.7	1.9	3.5	3.3	3.5	2.0
P-VALUE	74.8	72.5	68.1	79.4	79.1	71.3	78.3	50.4	80.2	63.0	64.5	74.6	85.4	54.8	69.1	73.7	78.3	78.8	73.1	89.8
STD ERR OF P	1.5	2.5	2.5	3.3	3.5	2.0	1.6	3.7	1.6	3.5	4.3	2.0	1.6	6.1	5.0	1.9	3.8	3.6	3.8	3.1
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	41.7	1.4	-2.1	0.8	-0.3	-5.2#	5.3#	-2.7	0.9	-1.6	-1.9	-3.3	-5.8#	0.0	-2.6	2.8	-3.7	-5.0	3.5	-0.9
STD ERR OF DP		2.8	3.5	2.4	4.5	1.0	1.0	3.0	0.7	4.5	4.0	2.3	2.0	5.5	7.0	2.7	4.5	3.8	3.3	6.2
STD ERR OF P	1.9	2.8	3.8	2.1	5.8	2.0	2.3	3.0	2.2	4.4	4.6	2.6	3.0	5.4	7.7	3.3	4.0	4.1	3.5	6.8
AGE: 13																				
DELTA-P	7.9	-0.7	2.5	0.3	-2.3	1.1	-1.1	5.6*	-1.0*	-0.5	-1.6	0.9	-3.2#	8.8#	0.3	-0.0	-0.1	-2.1	-0.5	-3.5*
STD ERR OF DP		1.2	1.3	1.5	1.2	0.7	0.7	2.3	0.4	2.0	1.9	1.2	0.7	3.1	2.4	1.0	1.5	1.7	1.7	1.7
STD ERR OF P	0.8	1.3	1.5	1.8	1.3	1.1	0.9	2.6	0.8	2.0	1.9	1.5	0.7	3.3	2.5	1.2	1.6	1.8	1.9	1.7

Report #: UN07

NAEP #: N22005-3

Content Area: N. EQUATIONS AND INEQUALITIES

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		09-14
National P-value:		
	UN07	19.08

Timing: (in seconds)
UN07 Exercise total: 32

EXERCISE: UH07

This unreleased exercise dealt with EQUATIONS AND INEQUALITIES at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	5.0	0.5	0.9	0.1	-1.3	0.9	-0.9	5.2#	-1.4#	3.2*	0.9	0.0	-0.8	5.5*	-0.3	-0.7	-2.0	1.3	1.8	-3.3#
STD ERR OF DP		0.9	0.8	1.1	0.7	0.6	0.5	1.9	0.5	1.6	1.5	0.6	0.5	2.6	1.0	0.7	1.1	1.6	1.6	0.9
STD ERR OF P	0.5	1.0	0.8	1.4	0.7	0.9	0.6	2.2	0.5	1.6	1.6	0.9	0.7	2.8	0.8	0.8	1.0	1.7	1.8	0.8
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	19.1	-2.8	-0.6	-3.2	6.2#	1.2	-1.1	-9.4#	2.3#	-13.8#	-14.1#	-3.2#	9.2#	-10.1#	-6.4#	-1.6	6.4	-3.3	-0.0	11.5#
STD ERR OF DP		2.5	2.0	2.3	1.9	1.1	1.0	2.1	0.6	1.9	1.5	1.3	1.0	2.5	2.5	1.7	4.8	3.3	3.5	3.9
P-VALUE	19.1	16.3	18.5	15.9	25.3	20.3	18.0	9.7	21.4	5.3	5.0	15.8	28.3	9.0	12.7	17.5	25.5	15.8	19.0	30.6
STD ERR OF P	1.3	2.9	2.2	2.9	2.0	1.8	1.5	2.3	1.4	1.8	1.3	1.6	1.8	2.4	2.5	1.9	5.3	3.4	3.8	4.4
RESPONSE: 03 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	37.2	5.3#	2.3	2.2	-8.5#	-4.7#	4.4#	8.2*	-1.6*	18.1#	14.8#	6.7#	-12.7#	4.4	6.5*	0.5	0.3	-2.6	0.6	-7.4
STD ERR OF DP		2.1	2.5	2.6	2.5	1.2	1.1	4.0	0.7	3.8	3.8	2.0	1.2	5.4	2.7	2.0	2.8	5.0	3.6	3.8
STD ERR OF P	1.4	2.0	2.8	3.3	3.0	1.9	1.7	4.4	1.5	3.8	4.2	2.3	1.8	5.8	2.6	2.4	2.6	5.3	4.1	4.2

1177

1178

Report #: UH08

NAEP #: M41010-38

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

		17	Adult
Age:		17	Adult
Package-Exercise:		05-18	07-09
National P-value:			
	UH08	13.44	10.13

Timing: (in seconds)
UH08 Exercise total: 109 *

*Time not limited by paced tape.

EXERCISE: UH08

This unreleased exercise dealt with EQUATIONS AND INEQUALITIES at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.2	-0.1	0.2	-0.2	0.2	-0.2	0.2	0.4	-0.1	-0.2	-0.2	-0.2	0.1	0.6	-0.2	-0.2	-0.1	-0.2	-0.1	0.6
STD ERR OF DP		0.1	0.3	0.1	0.3	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.2	0.7	0.1	0.1	0.2	0.1	0.2	0.7
STD ERR OF P	0.1	0.1	0.3	0.0	0.4	0.0	0.2	0.6	0.1	0.0	0.0	0.0	0.2	0.8	0.0	0.0	0.1	0.0	0.1	0.8
AGE: Ad Response did not occur at this age.																				
RESPONSE: 03* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	13.4	-1.3	0.5	-1.4	2.2	0.0	-0.0	0.2	-0.0	-1.7	0.9	-0.6	1.4	0.2	2.0	-2.9#	-0.1	0.6	4.9	1.9
STD ERR OF DP		1.6	1.4	1.4	1.8	1.0	0.8	1.9	0.4	2.1	2.3	1.2	1.0	3.0	2.6	1.0	2.2	2.8	2.9	3.7
P-VALUE	13.4	12.1	13.9	12.1	15.6	13.5	13.4	13.6	13.4	11.7	14.4	12.9	14.8	13.7	15.5	10.5	13.3	14.0	18.3	15.3
STD ERR OF P	0.9	1.8	1.5	1.7	2.2	1.3	1.2	2.0	1.0	2.3	2.4	1.4	1.4	3.1	2.6	1.1	2.5	2.9	2.9	4.1
AGE: Ad																				
DELTA-P	10.1	0.2	-0.8	0.4	0.3	-0.6	0.5	9.5#	-1.1#	1.4	0.9	-0.1	-2.7*	0.5	0.4	-0.0	-1.5	3.8	0.2	-1.9
STD ERR OF DP		1.2	1.1	1.5	1.4	0.8	0.8	3.2	0.4	1.3	1.6	1.2	1.1	2.1	2.2	0.9	1.6	3.9	2.0	1.8
P-VALUE	10.1	10.3	9.3	10.6	10.4	9.6	10.6	19.6	9.0	11.6	11.1	10.0	7.4	10.7	10.5	10.1	8.6	13.9	10.3	8.3
STD ERR OF P	0.8	1.1	1.2	1.9	1.6	1.3	0.9	3.6	0.7	1.6	1.9	1.3	1.1	2.2	2.1	1.2	1.6	4.1	2.1	2.0
RESPONSE: 09 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	3.8	0.8	-0.2	-0.5	0.1	0.2	-0.1	4.9#	-1.1#	2.9*	1.2	-0.4	-1.7#	4.2*	[illegible]	-1.1*	0.0	0.4	-3.3#	1.4
STD ERR OF DP		1.1	0.7	0.7	0.8	0.5	0.4	1.3	0.3	1.2	1.4	0.7	0.4	2.1	2.6	0.5	1.1	1.5	0.5	1.4
STD ERR OF P	0.5	1.3	0.7	0.8	0.9	0.7	0.6	1.4	0.5	1.3	1.4	0.9	0.4	2.1	2.7	0.6	1.2	1.6	0.3	1.5
AGE: Ad																				
DELTA-P	8.8	-0.0	-1.6	-1.9	3.8#	-1.7*	1.6*	4.4*	-1.1#	4.6#	2.1	-1.2	-5.5#	14.0#	1.2	-0.1	-3.4*	-3.6	-2.9*	-2.5
STD ERR OF DP		1.5	1.1	1.0	1.5	0.7	0.7	2.0	0.4	1.5	1.6	1.3	1.1	3.1	2.0	0.9	1.7	1.8	1.3	1.7
STD ERR OF P	0.7	1.8	1.2	1.0	1.8	1.1	0.9	2.2	0.7	1.9	1.8	1.4	0.9	3.5	2.0	1.2	1.7	1.8	1.3	1.8

Report #: UH09

NAEP #: H41017-3

Content Area: H. EQUATIONS AND INEQUALITIES

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age: 17
Package-Exercise: 03-10
National P-value:
UH09 19.87

Timing: (in seconds)
UH09 Exercise total: 99

EXERCISE: UH09

This unreleased exercise dealt with EQUATIONS AND INEQUALITIES at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	14.9	3.4	-1.1	1.0	-3.1*	-0.2	0.2	7.1	-1.7*	4.7	0.5	3.5*	-5.0*	2.6	4.3	-0.3	-0.5	1.3	-1.9	-2.9
STD ERR OF DP		2.4	1.6	1.5	1.4	0.9	0.9	3.9	0.6	3.3	2.3	1.2	1.0	3.6	4.2	1.4	2.4	3.8	2.1	3.0
STD ERR OF P	1.0	3.0	1.6	1.9	1.3	1.4	1.3	4.4	0.9	3.8	2.5	1.5	1.0	3.8	4.7	1.6	2.4	3.9	2.1	3.1
RESPONSE: 10* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	19.9	-8.0*	-3.0	-1.1	10.4*	2.2*	-2.1*	-15.1*	2.8*	-14.9*	-8.7*	-4.4*	9.7*	-13.6*	-10.2*	1.4	2.1	-6.0	6.1	8.5*
STD ERR OF DP		1.8	2.0	2.2	2.5	1.0	1.0	2.0	0.6	1.8	1.5	1.2	1.0	2.2	2.7	2.0	2.8	3.7	3.5	4.0
P-VALUE	19.9	11.9	16.9	18.7	30.3	22.1	17.7	4.8	22.7	5.0	11.1	15.5	29.5	6.3	9.7	21.3	22.0	13.9	26.0	28.4
STD ERR OF P	1.2	1.8	2.1	3.0	2.7	1.0	1.4	1.5	1.4	1.6	1.6	1.6	1.8	2.0	3.1	2.3	2.9	3.9	3.6	4.2
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	8.1	0.6	0.4	-0.7	-0.1	-0.6	0.6	5.0*	-0.9*	13.3*	0.2	-0.6	-3.0*	7.7	-1.1	1.0	-1.9	3.2	-2.7*	-3.5*
STD ERR OF DP		1.1	1.2	1.0	1.3	0.8	0.8	2.3	0.4	2.9	1.5	0.9	0.7	4.1	2.7	1.1	1.9	4.1	0.9	1.7
STD ERR OF P	0.7	1.2	1.4	1.2	1.6	1.0	1.1	2.4	0.7	3.2	1.5	1.1	0.8	4.2	2.8	1.2	1.9	4.4	0.9	1.6

Report #: UI01

NAEP #: I21001-3

Content Area: I. FUNCTIONS

Objective: I. Recall and/or Recognition of Definitions,
Facts, and Symbols.

Exercise Type: Multiple part short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		09-08
National P-value:		
	UI01A	15.66
	UI01B	12.42

Timing: (in seconds)

UI01A	Part total:	37
UI01B	Part total:	37
UI01	Exercise total:	74

EXERCISE: 0I01

This unreleased exercise dealt with FUNCTIONS at the level of Objective I.

Part A.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	5.7	0.3	0.7	0.6	-1.5	1.3*	-1.3*	3.4*	-1.0#	-1.9	3.0	0.3	-0.9	3.9	-0.9	-0.9	-0.3	4.0	2.4	-5.2#
STD ERR OF DP		1.3	1.0	0.9	0.9	0.6	0.5	1.4	0.4	1.2	1.5	0.7	0.6	2.0	1.3	0.8	1.1	2.1	2.2	0.6
STD ERR OF P	0.6	1.5	1.0	1.1	1.0	0.9	0.7	1.4	0.6	1.4	1.7	0.9	0.8	2.0	1.2	0.8	1.1	2.3	2.6	0.4

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	15.7	-0.9	-5.6#	-1.7	7.5#	0.4	-0.3	-7.2#	1.7#	-9.3#	-11.1#	-3.3*	7.8#	-8.0#	-5.6*	-2.5	2.9	-2.8	-1.7	16.2#
STD ERR OF DP		2.4	1.9	2.3	2.7	1.1	1.0	1.8	0.5	2.4	1.7	1.4	1.1	2.5	2.4	1.9	3.6	2.7	3.3	4.8
P-VALUE	15.7	14.8	10.0	14.0	23.2	16.0	15.3	8.4	17.3	6.4	4.5	12.4	23.4	7.6	10.1	13.2	18.6	12.9	13.9	31.8
STD ERR OF P	1.4	2.5	1.7	2.8	3.4	1.7	1.8	1.6	1.6	2.0	1.5	1.9	2.1	2.6	2.1	2.2	3.8	2.6	3.4	5.5

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	49.2	2.6	8.4#	2.1	-11.8#	-4.0#	3.7#	3.3	-0.3	13.5#	10.7#	4.5*	-9.0#	-1.5	1.6	4.2	2.8	-2.3	-0.8	-9.8
STD ERR OF DP		2.3	2.9	3.1	2.6	1.4	1.3	3.6	0.7	[illegible]	3.0	2.2	1.4	5.1	3.3	2.2	4.2	5.2	4.3	5.5
STD ERR OF P	1.6	2.1	3.2	4.0	3.0	2.3	1.9	4.0	[illegible]	3.2	3.4	2.6	2.3	5.6	3.3	2.6	4.2	5.3	4.7	6.0

EXERCISE: 0I01

Part B.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	7.1	-0.6	-0.2	1.4	-0.9	1.6*	-1.4*	5.8#	-1.3#	0.0	2.1	1.3	-1.7#	7.8*	-2.4	-2.2*	0.6	4.7	1.7	-4.7#
STD ERR OF DP		1.5	1.2	1.5	1.1	0.8	0.7	2.3	0.5	1.7	1.8	0.8	0.6	3.9	1.4	0.9	1.6	2.6	2.2	1.1
STD ERR OF P	0.8	1.6	1.3	1.9	1.2	1.2	0.9	2.6	0.8	1.9	1.8	1.1	1.0	4.2	1.3	0.8	1.7	2.8	2.6	1.0

RESPONSE: 10* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	12.4	-1.3	-3.2*	-1.0	5.0#	-0.2	0.2	-6.1#	1.5#	-8.8#	-8.4#	-4.6#	7.4#	-4.5	-6.0#	-2.4	3.4	-4.6	-0.8	13.4#
STD ERR OF DP		2.3	1.6	2.1	1.9	1.1	1.0	1.5	0.4	1.7	1.5	1.1	1.1	3.3	1.8	1.4	3.2	2.5	2.9	4.4
P-VALUE	12.4	11.1	9.2	11.4	17.4	12.2	12.6	6.3	13.9	3.6	4.1	7.9	19.8	7.9	6.4	10.0	15.8	7.8	11.6	25.9
STD ERR OF P	1.2	2.6	1.5	2.6	2.2	1.6	1.5	1.2	1.4	1.4	1.3	1.1	2.0	2.5	1.5	1.3	3.4	2.5	3.1	5.1

RESPONSE: 39 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	49.5	3.5	6.3*	2.2	-10.7#	-2.9*	2.7	2.0	-0.2	16.1#	11.5#	4.2	-9.6#	0.0	3.3	4.9*	0.2	-6.3	-2.2	-7.1
STD ERR OF DP		2.0	2.9	3.2	2.7	1.5	1.4	3.7	0.7	3.7	3.4	2.3	1.4	5.1	3.7	2.0	4.1	4.8	4.4	5.2
STD ERR OF P	1.6	1.5	3.3	4.1	3.1	2.5	1.7	4.0	1.8	3.4	3.5	2.9	2.3	5.4	3.7	2.3	4.4	4.9	4.9	5.9

Report #: UI02

NAEP #: I23003-3

Content Area: I. FUNCTIONS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		02-10
National P-value:		
	UI02	4.91

Timing: (in seconds)
UI02 Exercise total: 63

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: UI02

This unreleased exercise dealt with FUNCTIONS at the level of Objective III.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	7.7	0.4	-1.0	1.8	-1.5	1.6	-1.4	4.2	-1.3#	0.8	0.7	-0.4	-1.8*	6.3#	-0.8	-1.6*	-1.8	7.8	0.0	-3.6*
STD ERR OF DP		1.1	1.1	1.2	1.1	0.8	0.7	2.3	0.5	2.0	1.7	0.9	0.8	2.4	1.9	0.7	1.4	4.1	2.1	1.6
STD ERR OF P	0.7	1.2	1.1	1.6	1.3	1.2	0.9	2.5	0.7	2.1	1.9	1.1	0.9	2.4	2.0	0.8	1.8	4.4	2.3	1.6
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	4.9	-2.6#	2.3	-0.5	0.6	0.8	-0.7	-3.9#	0.9#	-4.7#	-2.7#	-2.1#	4.1#	-3.9#	-1.9	-1.5*	1.3	-1.5	1.8	7.6#
STD ERR OF DP		1.0	1.3	0.8	1.0	0.6	0.5	0.8	0.2	0.6	0.8	0.7	0.7	0.8	1.8	0.7	1.4	1.7	1.6	3.0
P-VALUE	4.9	2.3	7.3	4.4	5.5	5.7	4.2	1.1	5.8	0.2	2.2	2.8	9.0	1.0	3.0	3.4	6.3	3.4	6.7	12.5
STD ERR OF P	0.6	1.0	1.6	0.9	1.2	0.9	0.7	0.6	0.7	0.2	0.7	0.6	1.2	0.5	1.7	0.7	1.4	1.7	1.9	3.2
RESPONSE: 03 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	45.8	5.2	2.1	2.0	-7.9#	-2.6	2.3	-2.1	0.1	16.3#	2.8	3.0	-6.3#	-2.0	6.9	2.2	4.3	-5.5	-0.2	-11.2*
STD ERR OF DP		2.9	2.5	2.7	2.9	1.6	1.3	3.1	0.7	4.6	3.2	1.9	1.8	3.8	6.6	1.8	3.9	4.7	4.4	4.8
STD ERR OF P	1.6	3.2	2.5	3.3	3.4	2.5	1.8	3.1	1.8	5.0	3.6	2.4	2.3	3.7	7.0	2.3	4.2	4.7	4.8	5.1

Report #: UI03

NAEP #: I31001-3

Content Area: I. FUNCTIONS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		11-08
National P-value:		
	UI03	3.17

Timing: (in seconds)
UI03 Exercise total: 28

EXERCISE: UI03

This unreleased exercise dealt with FUNCTIONS at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	7.6	-1.9	-0.6	-0.2	2.4	1.7#	-1.8#	2.2	-0.8#	3.7	-2.0	-0.6	-1.4	5.0#	-0.4	-2.3*	-0.4	5.6	-0.6	-1.4
STD ERR OF DP		1.0	1.2	1.3	1.2	0.6	0.7	1.7	0.3	2.2	1.3	1.1	0.7	1.6	2.9	0.9	1.7	2.9	1.6	2.0
STD ERR OF P	0.7	0.9	1.3	1.7	1.4	0.9	0.9	1.7	0.8	2.4	1.3	1.3	0.9	1.6	3.0	1.0	1.9	3.1	1.8	2.1
RESPONSE: 10* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	3.2	-0.5	1.0	-2.0#	2.0#	0.6	-0.6	-3.2#	0.5#	-1.8	-3.0#	-1.3*	2.5#	-2.7#	-3.2#	2.2#	1.1	-1.2	-0.9	-0.3
STD ERR OF DP		0.9	1.4	0.6	0.7	0.6	0.6	0.5	0.1	1.0	0.5	0.6	0.6	0.7	0.5	0.9	1.9	1.4	1.0	1.5
P-VALUE	3.2	2.7	4.1	1.1	5.1	3.7	2.6	-0.0	3.7	1.3	0.2	1.8	5.7	0.5	-0.0	5.4	4.2	2.0	2.3	2.9
STD ERR OF P	0.5	0.9	1.8	0.5	0.6	1.0	0.6	0.0	0.6	0.9	0.2	0.5	1.1	0.5	0.0	1.2	2.1	1.3	1.0	1.4
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	56.2	4.1	1.4	-0.1	-4.7	-4.1#	4.3#	-7.3	1.5*	-0.3	8.4#	2.1	-2.5	-10.7#	6.1	0.4	0.1	-6.0	4.7	0.8
STD ERR OF DP		2.7	3.7	3.0	2.6	1.4	1.6	3.7	0.8	4.3	2.3	2.3	1.7	3.6	5.5	2.5	4.7	4.9	3.3	4.9
STD ERR OF P	1.8	2.5	4.6	3.7	2.6	2.4	2.3	4.2	1.9	4.6	2.2	2.6	2.9	4.0	5.8	3.3	5.1	5.1	3.3	5.0

Report #: 0J01

NAEP #: J10008-3

Content Area: J. PROBABILITY AND STATISTICS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		07-15
National P-value:		
	0J01	0.45

Timing: (in seconds)
0J01 Exercise total: 23

EXERCISE: UJ01

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	5.2	-0.2	0.2	0.5	-0.6	0.2	-0.2	4.8#	-1.0#	-0.2	1.0	-0.4	-0.6	3.4*	-2.1*	0.5	-2.3#	1.3	2.6	-4.0#
STD ERR OF DP		0.8	1.4	0.7	0.8	0.6	0.5	1.3	0.3	1.6	1.6	0.6	0.5	1.5	0.9	0.9	0.9	1.6	1.5	0.9
STD ERR OF P	0.6	0.7	1.8	0.6	0.9	0.7	0.8	1.5	0.5	1.9	1.8	0.7	0.7	1.5	0.9	1.3	0.8	1.6	1.6	0.8
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	4.5	-1.0	-1.3	-2.1#	4.2#	1.9#	-1.6#	-3.3#	0.6#	-3.2#	-3.4#	-1.2	2.7#	-3.7#	-3.7#	-0.8	2.7	-2.6*	-0.9	8.9#
STD ERR OF DP		1.2	0.9	0.8	1.4	0.6	0.6	0.6	0.2	0.7	0.7	1.1	0.9	0.9	0.8	1.4	2.1	1.1	1.0	2.2
P-VALUE	4.5	3.5	3.1	2.4	8.6	6.3	2.8	1.2	5.1	1.3	1.1	3.3	7.2	0.8	0.8	3.7	7.2	1.9	3.5	13.4
STD ERR OF P	0.6	1.3	1.0	0.7	1.7	1.1	0.6	0.6	0.7	0.7	0.6	0.9	1.4	0.6	0.5	1.6	2.1	1.1	1.1	2.4
RESPONSE: 03 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	38.4	-2.4	-1.7	6.7#	-3.4	-5.7#	4.9#	0.5	-0.5	14.3#	5.5	3.8*	-7.2#	10.1#	6.4	-3.2*	0.3	-2.9	2.6	-6.4
STD ERR OF DP		2.6	2.1	2.1	2.4	1.3	1.2	3.2	0.6	3.2	3.2	1.6	1.3	3.1	3.9	1.6	3.4	4.2	3.6	4.0
STD ERR OF P	1.3	2.9	2.4	2.4	2.9	2.0	1.7	3.3	1.5	3.5	3.6	2.3	1.4	3.3	4.2	1.8	3.7	4.4	3.9	4.1

Report #: UJ02

NAEP #: J10009-38

Content Area: J. PROBABILITY AND STATISTICS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:	17	Adult
Package-Exercise:	06-08	07-12
National P-value:		
UJ02	18.70	17.30
Timing: (in seconds)		
UJ02 Exercise total:	63	*

*Time not limited by paced tape.

EXERCISE: UJ02

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective V.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	2.6	1.2	-0.6	-0.1	-0.3	-0.5	0.5	3.8*	-0.0#	0.6	0.9	0.5	-1.0#	1.4	-2.3#	-0.6	1.5	1.6	1.0	-1.3
STD ERR OF DP		0.8	0.6	0.6	0.7	0.5	0.4	1.7	0.3	1.0	1.1	0.7	0.4	1.1	0.5	0.6	1.1	1.6	1.3	0.8
STD ERR OF P	0.4	1.0	0.6	0.7	0.9	0.5	0.7	1.8	0.4	1.1	1.2	0.8	0.4	1.2	0.2	0.6	1.2	1.7	1.5	0.7
AGE: Ad																				
DELTA-P	0.9	-0.0	-0.6*	0.3	0.3	0.0	-0.0	-0.1	0.1	-0.1	0.2	0.6	-0.8#	-0.9#	0.4	0.0	-0.6	2.1	-0.1	-0.5
STD ERR OF DP		0.5	0.3	0.5	0.4	0.3	0.2	0.5	0.1	0.4	0.7	0.5	0.3	0.2	0.8	0.3	0.3	1.7	0.8	0.4
STD ERR OF P	0.2	0.6	0.2	0.6	0.5	0.4	0.3	0.5	0.3	0.4	0.8	0.6	0.1	0.0	0.8	0.4	0.2	1.8	0.8	0.4
RESPONSE: 10* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	18.7	-7.0#	1.4	3.2	0.9	6.5#	-6.0#	-15.9#	3.1#	-10.9#	-11.2#	-5.6#	10.7#	-9.4#	-6.3#	-1.1	2.5	-0.7	0.6	10.6*
STD ERR OF DP		1.6	1.6	1.6	2.6	1.3	1.3	1.3	0.4	1.8	2.0	1.4	1.3	3.1	2.1	1.5	2.8	4.6	1.8	4.9
P-VALUE	18.7	11.7	20.1	21.9	19.6	25.2	12.7	2.8	21.8	7.9	7.5	13.1	29.4	9.3	12.4	17.6	21.2	18.0	19.3	29.3
STD ERR OF P	1.1	1.4	1.5	1.7	3.5	1.6	1.9	1.0	1.3	1.8	1.8	1.4	2.1	3.1	2.0	1.5	2.9	4.7	1.6	5.7
AGE: Ad																				
DELTA-P	17.3	-5.6#	1.3	1.4	1.8	7.6#	-7.0#	-16.1#	2.6#	-9.1#	-5.9#	0.5	14.0#	-10.2#	-8.5#	0.1	-1.0	-2.3	-1.4	14.8#
STD ERR OF DP		1.8	1.6	1.6	1.9	0.9	0.9	1.0	0.3	1.3	2.2	1.6	2.3	1.6	2.0	1.2	3.2	3.1	3.0	3.1
P-VALUE	17.3	11.8	18.6	18.7	19.1	24.9	10.3	1.3	19.9	8.2	11.4	17.8	31.3	7.1	8.8	17.4	16.3	15.0	15.9	32.1
STD ERR OF P	1.0	2.0	1.8	1.8	2.3	1.5	1.2	0.7	1.0	1.3	2.6	1.8	2.6	1.4	1.9	1.6	3.5	3.4	3.1	3.2
RESPONSE: 19 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	18.3	1.9	1.1	-3.8#	1.6	-2.2*	2.0*	6.5*	-1.3#	2.7	4.3	1.1	-3.5#	4.1	-0.8	0.6	-3.2	-5.1*	2.3	-0.2
STD ERR OF DP		1.6	1.9	1.3	1.6	1.0	0.9	2.7	0.4	2.7	2.5	1.2	1.1	3.3	2.1	1.1	2.2	2.1	2.3	4.3
STD ERR OF P	0.9	1.8	2.2	1.4	1.9	1.2	1.5	2.8	1.0	3.0	2.4	1.5	1.3	3.3	2.1	1.2	2.4	2.0	2.6	4.6
AGE: Ad																				
DELTA-P	29.2	5.6*	-1.7	-3.4	0.8	-6.0#	5.6#	12.4#	-1.6#	6.0#	-2.6	1.1	-6.7#	5.2	-4.2	1.4	-0.2	1.6	-2.1	-4.3
STD ERR OF DP		2.8	2.1	2.8	2.3	1.3	1.3	3.4	0.5	1.9	2.4	2.1	2.1	3.2	2.5	1.7	3.8	3.3	2.7	3.1
STD ERR OF P	1.4	3.0	2.3	3.5	2.5	1.9	1.9	3.7	1.5	2.2	2.7	2.7	2.3	3.4	2.3	2.3	4.1	3.5	2.9	3.5

Report #: UJ03

NAEP #: J10010-123

Content Area: J. PROBABILITY AND STATISTICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:	9	13	17
Package-Exercise:	10-07	10-08	12-05
National P-value:			
UJ03L	0.01	0.21	2.71
UJ03M	41.28	55.25	63.03
UJ03O	23.20	35.36	50.24
UJ03P	0.57	5.92	18.39
UJ03S	5.74	27.48	36.11

Timing: No paced tape was used in the individually administered exercise.

EXERCISE: 0J03

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective IV.

Part L.

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	4.4	2.0	0.3	-2.5#	0.2	-0.3	0.3	2.6*	-0.9*	5.5	1.9	-0.3	-1.5*	1.9	7.5*	-1.3*	0.4	-2.2	-1.1	-0.6
STD ERR OF DP		1.4	1.2	0.8	0.9	0.5	0.5	1.3	0.4	4.1	3.4	0.9	0.7	1.7	3.1	0.6	1.1	1.1	1.3	1.2
STD ERR OF P	0.6	1.8	1.4	0.8	1.0	0.7	0.9	1.4	0.7	4.5	3.5	1.2	0.7	1.7	3.6	0.7	1.0	1.1	1.2	1.2
AGE: 13																				
DELTA-P	1.2	0.7	0.8	-0.2	-1.2#	-0.2	0.2	1.7	-0.4	2.1	1.1	0.6	-1.1#	1.2	2.0	-0.7	-0.7	0.9	-0.3	-0.4
STD ERR OF DP		1.0	0.8	0.5	0.4	0.2	0.2	1.3	0.3	2.0	0.9	0.4	0.4	1.1	1.7	0.4	0.6	1.3	0.6	0.6
STD ERR OF P	0.4	1.2	1.0	0.4	0.1	0.4	0.5	1.5	0.3	2.2	1.1	0.6	0.2	1.2	1.9	0.3	0.5	1.5	0.6	0.6
AGE: 17																				
DELTA-P	0.2	0.1	-0.2#	0.2#	-0.1	-0.2#	0.2#	0.3	-0.0	0.3	1.0#	-0.1	-0.2#	-0.2#	-0.2#	0.3#	0.3	-0.2#	-0.2#	-0.2#
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.0	0.1	0.0	0.1	0.3	0.1	0.4	0.2	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.0	0.1	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
P-VALUE	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
AGE: 13																				
DELTA-P	0.2	-0.2	-0.2	0.4	-0.0	-0.1	0.1	-0.2	0.1	-0.2	-0.2	-0.0	0.2	-0.2	-0.2	0.3	-0.2	-0.2	-0.2	0.3
STD ERR OF DP		0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.4
P-VALUE	0.2	0.0	0.0	0.6	0.2	0.1	0.4	0.0	0.3	0.0	0.0	0.2	0.4	0.0	0.0	0.5	0.0	0.0	0.0	0.5
STD ERR OF P	0.1	0.0	0.0	0.5	0.2	0.1	0.3	0.0	0.2	0.0	0.0	0.1	0.3	0.0	0.0	0.4	0.0	0.0	0.0	0.5
AGE: 17																				
DELTA-P	2.7	-2.1#	0.5	-0.1	1.4*	1.5#	-1.5#	-2.2#	0.4#	-2.0#	-1.8#	-0.4	0.9	-1.7*	-2.7#	0.3	1.2	-0.7	-0.6	2.4
STD ERR OF DP		0.4	0.7	0.6	0.6	0.4	0.4	0.5	0.1	0.8	0.7	0.6	0.4	0.8	0.4	0.6	1.1	0.9	0.8	1.4
P-VALUE	2.7	0.7	3.2	2.6	4.1	4.2	1.2	0.5	3.1	0.7	0.9	2.3	3.6	1.0	0.0	3.0	4.0	2.0	2.1	5.1
STD ERR OF P	0.4	0.3	0.8	0.7	0.7	0.6	0.4	0.4	0.4	0.7	0.6	0.7	0.6	0.7	0.0	0.7	1.2	0.9	0.9	1.5
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	14.0	0.3	1.0	-2.3	1.3	-1.5	1.3	0.4	-0.4	-2.0	4.5	-0.4	-1.9	-1.3	-2.0	1.3	-1.9	-0.6	-0.4	1.9
STD ERR OF DP		1.9	1.7	1.6	1.6	0.8	0.8	1.9	0.4	2.7	4.4	1.6	1.0	2.4	2.2	1.4	2.4	2.3	2.5	3.0
STD ERR OF P	1.0	2.3	1.9	1.9	1.8	1.2	1.3	2.3	1.1	2.8	4.7	1.8	1.6	2.4	2.3	1.8	2.4	2.5	2.5	3.4
AGE: 13																				
DELTA-P	8.5	2.0	1.8	-3.0#	-0.1	-2.9#	2.9#	4.1*	-1.5#	0.3	2.6	-0.7	-2.3#	4.3	1.7	-0.6	-1.5	1.9	0.2	-2.7
STD ERR OF DP		1.2	1.4	0.8	1.1	0.5	0.5	2.0	0.4	2.4	2.2	0.9	0.9	2.5	1.5	0.9	1.3	1.6	1.8	1.8
STD ERR OF P	0.6	1.4	1.7	0.8	1.2	0.7	0.9	2.0	0.7	2.6	2.4	1.0	1.0	2.5	1.5	1.3	1.3	1.6	1.9	2.0
AGE: 17																				
DELTA-P	9.0	4.1	-0.8	-2.8*	2.8	-2.7#	2.7#	5.6#	-1.0#	4.1	2.9	-1.1	-2.3#	3.9*	-2.7*	-1.4	-3.0#	0.6	4.8	0.2
STD ERR OF DP		1.4	1.3	1.2	1.9	0.7	0.7	2.0	0.4	2.4	1.9	1.1	0.6	1.6	1.1	1.0	1.0	3.1	3.4	2.3
STD ERR OF P	0.9	1.5	1.4	1.2	2.4	0.9	1.2	2.0	0.9	2.5	2.0	1.4	1.0	1.6	0.9	1.3	0.9	3.3	3.9	2.3

EXERCISE: 0J03

Part M.

	NATION	REGION SOUTHEAST	REGION WEST	REGION CENTRAL	REGION NORTHEAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.6	0.4	-0.1	-0.2	-0.1	-0.1	0.1	0.0	-0.1	2.5	-0.6#	-0.3	-0.4	-0.6#	1.6	-0.5#	0.6	-0.0	0.3	-0.3
STD ERR OF DP		0.4	0.3	0.3	0.3	0.2	0.2	0.4	0.1	1.8	0.2	0.2	0.2	0.2	1.2	0.2	0.5	0.4	0.6	0.3
STD ERR OF P	0.2	0.4	0.4	0.3	0.3	0.2	0.3	0.4	0.2	1.9	0.0	0.2	0.2	0.0	1.3	0.1	0.6	0.4	0.5	0.3

EXERCISE: UJ03

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective IV.

Part B.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.3	0.5	0.0	-0.3*	-0.1	-0.1	0.1	0.1	0.0	0.1	0.6	0.1	-0.3*	0.4	0.2	0.1	-0.3*	-0.3*	0.3	-0.3*
STD ERR OF DP		0.4	0.3	0.1	0.2	0.1	0.1	0.3	0.0	0.4	0.8	0.2	0.1	0.5	0.3	0.2	0.1	0.1	0.5	0.1
STD ERR OF P	0.1	0.5	0.3	0.0	0.1	0.2	0.2	0.3	0.2	0.4	0.8	0.3	0.0	0.5	0.4	0.3	0.0	0.0	0.5	0.0
AGE: 17																				
DELTA-P	0.0	-0.0	-0.0	-0.0	0.0	-0.0	0.0	0.1	-0.0	0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	41.3	-4.0	2.0	2.9	-0.9	1.6	-1.4	-7.8#	1.3	3.9	1.6	-3.6	2.2	-6.1*	-6.7	-0.5	1.8	0.3	1.2	6.2
STD ERR OF DP		2.4	2.0	1.9	2.1	1.3	1.2	3.0	0.7	4.5	5.2	2.5	1.4	2.6	4.1	1.9	3.0	3.7	3.2	3.5
P-VALUE	41.3	37.3	43.3	44.2	40.4	42.9	39.8	33.5	42.5	45.1	42.9	37.7	43.5	35.2	34.5	40.8	43.1	41.5	42.5	47.5
STD ERR OF P	1.2	3.0	2.2	1.9	2.4	1.8	1.7	3.3	1.3	4.8	5.3	2.9	1.9	2.9	4.3	2.3	3.2	3.8	3.3	3.8
AGE: 13																				
DELTA-P	55.3	-5.7*	0.2	2.6	1.9	2.4	-2.4	-9.2#	1.8#	-8.5	-0.8	-3.2*	7.8#	-0.4	-3.8	-3.3	1.1	1.9	1.4	8.0*
STD ERR OF DP		2.6	2.2	2.0	2.4	1.3	1.3	2.5	0.6	5.8	3.4	1.4	1.6	4.5	5.5	2.1	3.9	3.4	3.0	3.8
P-VALUE	55.3	49.5	55.4	57.9	57.1	57.6	52.9	46.0	57.1	46.7	54.4	52.1	63.1	54.9	51.5	51.9	56.3	57.1	56.7	63.3
STD ERR OF P	1.3	3.0	2.4	2.3	2.7	1.7	2.0	2.4	1.5	5.9	3.5	1.9	2.2	4.4	5.9	2.2	4.2	3.8	3.4	4.1
AGE: 17																				
DELTA-P	63.0	-5.4*	1.6	3.7*	-0.9	3.9#	-4.0#	-10.7#	2.4#	-9.4#	-6.0*	1.0	3.8#	-9.7#	-1.2	-0.6	3.5	2.8	1.8	1.9
STD ERR OF DP		2.6	2.2	1.7	1.9	1.3	1.3	2.6	0.5	3.6	2.9	1.7	1.4	3.3	3.6	1.8	3.2	5.1	2.4	3.5
P-VALUE	63.0	57.7	64.6	66.7	62.2	67.0	59.1	52.4	65.4	53.6	57.0	64.0	66.9	53.3	61.8	62.5	66.5	65.9	64.8	64.9
STD ERR OF P	1.2	3.1	2.6	1.9	2.1	1.7	1.8	2.9	1.2	3.6	3.2	2.1	1.7	3.5	3.6	2.1	3.5	5.4	2.5	3.7
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	7.7	0.6	0.7	-0.7	-0.5	-0.3	0.3	-3.7#	0.9#	-6.1#	-2.8	-0.2	0.2	-4.1#	1.8	0.3	-0.5	0.1	-0.3	1.1
STD ERR OF DP		0.8	1.2	1.4	0.9	0.5	0.5	1.2	0.3	0.9	2.7	1.2	0.9	1.4	2.3	1.2	1.7	1.6	1.4	1.9
STD ERR OF P	0.6	0.6	1.5	1.8	0.8	0.8	0.9	1.2	0.8	0.9	2.7	1.4	1.2	1.3	2.3	1.6	1.7	1.7	1.4	2.1
AGE: 13																				
DELTA-P	5.5	1.2	0.7	-0.1	-1.7*	-1.2*	1.2*	-1.5	0.2	0.1	-3.6#	0.6	-0.6	-3.1#	-0.7	2.1*	1.2	0.5	-2.2*	-2.5#
STD ERR OF DP		1.3	1.0	1.0	0.8	0.6	0.6	1.2	0.2	1.8	0.8	0.8	0.7	1.1	1.2	0.9	1.5	1.5	1.0	1.0
STD ERR OF P	0.6	1.5	1.0	1.3	0.8	0.7	1.0	1.3	0.7	1.8	0.7	1.0	1.0	1.0	1.2	1.2	1.8	1.7	1.0	1.0
AGE: 17																				
DELTA-P	5.0	1.2	-1.9#	-1.4	2.2	-0.9*	0.9*	-0.7	-0.1	5.5*	-0.6	-1.3*	-0.6	0.5	3.3	0.2	-2.6#	-2.0	-0.4	1.0
STD ERR OF DP		0.9	0.7	0.8	1.2	0.4	0.4	1.1	0.2	2.3	1.0	0.6	0.5	1.3	2.0	0.7	0.9	1.5	1.5	1.4
STD ERR OF P	0.5	1.0	0.6	0.9	1.6	0.6	0.7	1.2	0.6	2.4	1.1	0.7	0.8	1.4	2.1	0.8	0.9	1.5	1.7	1.6

EXERCISE: UJ03

Part C.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.4	-0.3	0.5	-0.6	0.5	-0.3	0.3	0.4	-0.1	-0.2	-0.3	-0.2	-0.9#	1.3	1.2	-0.7	-0.5	0.3	0.6	-0.3
STD ERR OF DP		0.6	0.6	0.4	0.6	0.3	0.3	0.7	0.1	0.9	0.9	0.4	0.3	1.1	1.7	0.4	0.5	1.1	0.7	0.6
STD ERR OF P	0.3	0.7	0.6	0.4	0.7	0.4	0.4	0.8	0.4	0.9	0.9	0.6	0.2	1.2	1.9	0.3	0.5	1.2	0.8	0.6
AGE: 13																				
DELTA-P	0.5	-0.1	0.3	-0.2	0.1	-0.3	0.3	0.1	-0.2	3.2	-0.1	-0.3	-0.5	0.3	1.6	-0.3	0.5	-0.5*	-0.5*	-0.5*
STD ERR OF DP		0.3	0.5	0.3	0.5	0.2	0.2	0.3	0.2	2.0	0.3	0.3	0.2	0.6	1.4	0.2	0.9	0.2	0.2	0.2
STD ERR OF P	0.2	0.3	0.7	0.2	0.6	0.1	0.4	0.3	0.2	2.3	0.4	0.2	0.1	0.6	1.5	0.2	1.0	0.0	0.0	0.0

EXERCISE: UJ03

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective IV.

Part O.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.1	0.0	-0.1	-0.1	0.2	-0.1	0.1	0.1	-0.0	-0.1	-0.1	0.2	-0.1	0.1	-0.1	-0.1	-0.1	-0.1	0.3	0.1
STD ERR OF DP		0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.4	0.2
STD ERR OF P	0.1	0.1	0.0	0.0	0.3	0.0	0.2	0.2	0.1	0.0	0.0	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.4	0.2
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	23.2	-3.1	1.2	1.3	0.6	1.2	-1.1	-9.4#	2.6#	2.1	-4.0	-2.1	3.0*	-5.5*	-3.6	3.4	-0.9	-8.1#	3.2	2.5
STD ERR OF DP		1.7	1.9	2.2	2.2	1.0	0.9	1.8	0.4	4.9	3.8	1.8	1.4	2.8	3.6	1.8	2.7	2.4	2.7	2.9
P-VALUE	23.2	20.1	24.4	24.5	23.8	24.4	22.1	13.8	25.8	25.3	19.2	21.1	26.2	17.7	19.6	26.6	22.3	15.1	26.4	25.7
STD ERR OF P	1.2	1.8	2.1	2.8	2.6	1.4	1.7	1.7	1.4	4.9	3.8	2.1	2.1	3.0	3.8	2.3	2.8	2.4	2.8	3.3
AGE: 13																				
DELTA-P	35.4	-4.6*	-1.0	2.8	1.9	5.0#	-4.9#	-16.9#	3.6#	-8.6*	-8.0*	-3.1	10.0#	-14.9#	-1.0	1.6	1.3	-2.8	4.3	0.9
STD ERR OF DP		2.0	2.1	2.6	2.5	1.1	1.1	2.6	0.7	3.6	3.3	1.6	1.4	2.9	6.8	1.9	3.9	3.6	2.8	2.4
P-VALUE	35.4	30.7	34.3	38.2	37.3	40.3	30.5	18.5	39.0	26.8	27.4	32.3	45.4	20.5	34.4	37.0	36.7	32.6	39.7	36.3
STD ERR OF P	1.4	1.9	2.2	3.3	3.0	1.9	1.7	2.5	1.5	3.7	3.2	2.2	2.2	2.9	7.3	1.9	4.3	4.0	3.1	2.6
AGE: 17																				
DELTA-P	50.2	-7.3#	-0.0	4.3*	1.5	8.5#	-8.6#	-20.9#	4.0#	-16.0#	-9.3#	0.3	7.2#	-10.5#	-2.9	-1.7	7.3#	-4.3	5.7	3.0
STD ERR OF DP		1.9	1.8	1.7	1.6	1.1	1.0	2.7	0.6	3.2	2.9	1.8	1.3	2.9	3.5	1.3	2.9	3.6	3.9	3.4
P-VALUE	50.2	43.0	50.2	54.5	51.7	58.8	41.6	29.4	54.2	34.2	40.9	50.5	57.5	39.7	47.3	48.5	57.6	45.9	55.9	53.2
STD ERR OF P	1.0	2.2	2.1	2.1	1.8	1.4	1.5	2.9	1.1	3.3	2.9	2.1	1.6	2.8	3.7	1.5	3.1	3.6	4.3	3.5
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	2.3	2.2#	-0.0	-0.9*	-1.3#	-0.6	0.6	-0.4	0.1	-0.8	0.8	-0.5	-0.4	-1.7#	1.7	1.5#	-1.6#	0.7	-1.6#	-1.0
STD ERR OF DP		0.8	0.6	0.4	0.5	0.4	0.4	0.6	0.1	1.0	1.6	0.7	0.5	0.5	1.3	0.5	0.5	0.9	0.6	0.7
STD ERR OF P	0.3	1.0	0.7	0.3	0.5	0.4	0.6	0.7	0.4	1.1	1.6	0.6	0.6	0.4	1.3	0.8	0.4	1.0	0.5	0.7
AGE: 13																				
DELTA-P	1.1	0.2	0.6	-0.2	-0.6	0.3	-0.3	-0.5	-0.1	1.9	-0.4	-0.4	-0.5	-0.7	1.9	0.6	-0.6	-0.6	-0.8*	-0.7
STD ERR OF DP		0.4	0.6	0.4	0.3	0.2	0.2	0.4	0.2	1.9	0.5	0.3	0.3	0.4	1.0	0.4	0.4	0.5	0.4	0.4
STD ERR OF P	0.3	0.4	0.7	0.5	0.3	0.4	0.3	0.3	0.3	2.1	0.4	0.3	0.3	0.4	1.1	0.6	0.4	0.4	0.3	0.4
AGE: 17																				
DELTA-P	0.8	0.8	-0.6#	-0.4	0.3	-0.5#	0.5#	0.7	-0.1	0.1	-0.5	0.2	-0.4*	-0.6*	1.9	-0.1	-0.1	-0.7#	-0.7#	0.7
STD ERR OF DP		0.5	0.2	0.3	0.5	0.2	0.2	0.6	0.1	0.6	0.3	0.3	0.2	0.3	1.0	0.3	0.4	0.3	0.2	1.0
STD ERR OF P	0.2	0.5	0.1	0.3	0.7	0.1	0.4	0.7	0.2	0.6	0.3	0.5	0.2	0.2	1.1	0.3	0.4	0.1	0.1	1.1

EXERCISE: UJ03

Part P.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.2	0.1	0.4	-0.2	-0.2	-0.2	0.2*	0.0	-0.2	1.4	-0.2	-0.2	-0.1	-0.2	1.3	-0.2	-0.1	-0.2	0.2	-0.2
STD ERR OF DP		0.2	0.3	0.1	0.1	0.1	0.1	0.2	0.1	1.5	0.1	0.1	0.1	0.1	0.9	0.1	0.2	0.1	0.4	0.1
STD ERR OF P	0.1	0.2	0.4	0.0	0.0	0.0	0.2	0.2	0.1	1.6	0.0	0.0	0.1	0.0	1.0	0.1	0.2	0.0	0.5	0.0
AGE: 13																				
DELTA-P	0.2	-0.2	0.0	0.1	-0.0	-0.1	0.1	0.0	-0.0	0.2	-0.2	-0.2	0.0	0.2	-0.2	-0.1	-0.2	0.8	-0.1	-0.2
STD ERR OF DP		0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.0	0.2	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.7	0.1	0.1
STD ERR OF P	0.1	0.0	0.2	0.3	0.1	0.1	0.2	0.2	0.1	0.2	0.0	0.0	0.2	0.4	0.0	0.1	0.0	0.7	0.1	0.0
AGE: 17																				
DELTA-P	0.2	-0.2	-0.1	0.2	0.0	-0.0	0.0	-0.2	0.0*	-0.2	-0.2	-0.1	0.2	-0.2	-0.2	-0.0	0.0	-0.2	-0.2	0.7
STD ERR OF DP		0.1	0.1	0.3	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.7
STD ERR OF P	0.1	0.0	0.1	0.4	0.2	0.1	0.2	0.0	0.1	0.0	0.0	0.1	0.3	0.0	0.0	0.1	0.2	0.0	0.0	0.8

EXERCISE: UJ03

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective IV.

Part P.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.6	-0.4*	-0.2	-0.2	0.8*	0.2	-0.2	-0.6#	0.1*	-0.6#	-0.6#	-0.4	0.6#	-0.3	-0.6#	0.3	0.3	-0.3	-0.6#	0.5
STD ERR OF DP		0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.5	0.3	0.2	0.7
P-VALUE	0.6	0.2	0.4	0.4	1.4	0.8	0.4	0.0	0.7	0.0	0.0	0.2	1.2	0.3	0.0	0.8	0.8	0.3	0.0	1.1
STD ERR OF P	0.1	0.1	0.3	0.2	0.4	0.3	0.2	0.0	0.2	0.0	0.0	0.2	0.3	0.3	0.0	0.2	0.5	0.3	0.0	0.8
AGE: 13																				
DELTA-P	5.9	-2.0	-2.3#	1.8	2.1	3.2#	-3.2#	-5.6#	1.3#	-4.7#	-4.2#	-2.0*	4.7#	-4.7#	-0.2	0.3	2.2	-1.2	-2.8#	4.1*
STD ERR OF DP		1.1	0.9	1.0	1.2	0.7	0.6	0.7	0.2	1.0	1.1	0.8	0.9	0.8	2.2	1.0	1.9	1.3	1.0	1.7
P-VALUE	5.9	3.9	3.6	7.7	8.0	9.1	2.7	0.3	7.2	1.2	1.8	3.9	10.7	1.2	5.7	6.2	8.1	4.7	3.1	10.0
STD ERR OF P	0.6	1.2	0.9	1.2	1.4	1.2	0.5	0.3	0.7	0.9	1.0	1.0	1.2	0.8	2.2	1.0	2.2	1.4	1.0	1.9
AGE: 17																				
DELTA-P	18.4	-5.0#	2.1	-1.7	4.1	8.4#	-8.5#	-13.8#	3.0#	-14.3#	-11.4#	0.7	6.5#	-7.3#	-5.3	0.2	4.5	-5.5	0.9	6.3*
STD ERR OF DP		1.7	2.0	1.5	2.1	1.0	0.9	1.7	0.4	1.6	1.9	1.3	1.1	1.7	2.9	1.4	2.6	3.4	3.6	2.9
P-VALUE	18.4	13.4	20.5	16.7	22.5	26.8	9.9	4.6	21.4	4.1	7.0	19.1	24.9	11.1	13.1	18.6	22.9	12.9	19.2	24.7
STD ERR OF P	1.0	1.8	2.3	1.6	2.5	1.7	1.1	1.7	1.2	1.5	1.8	1.6	1.7	1.6	2.9	1.7	2.7	3.6	4.0	3.1

RESPONSE: 03 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.9	-0.1	0.9	-0.4	-0.3	-0.3	0.2	-0.3	0.0	-0.5	-0.2	-0.1	-0.1	-0.6	1.1	-0.3	0.5	0.6	-0.5	-0.3
STD ERR OF DP		0.4	0.6	0.3	0.3	0.2	0.2	0.4	0.1	0.4	0.7	0.3	0.3	0.4	1.0	0.3	0.8	0.6	0.4	0.4
STD ERR OF P	0.2	0.5	0.7	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.7	0.4	0.4	0.3	1.1	0.3	0.9	0.6	0.4	0.4
AGE: 13																				
DELTA-P	0.6	0.1	0.3	0.1	-0.5#	-0.0	0.0	0.2	-0.0	-0.6#	0.3	0.1	-0.4*	0.5	-0.4	0.1	-0.1	0.7	-0.6#	0.1
STD ERR OF DP		0.3	0.3	0.3	0.2	0.2	0.2	0.4	0.1	0.2	0.6	0.2	0.2	0.6	0.2	0.2	0.4	0.5	0.2	0.6
STD ERR OF P	0.2	0.3	0.4	0.3	0.1	0.2	0.2	0.4	0.2	0.0	0.7	0.3	0.1	0.7	0.2	0.3	0.4	0.5	0.0	0.6
AGE: 17																				
DELTA-P	0.2	-0.1	0.3	0.1	-0.2	-0.0	0.0	0.0	-0.0	-0.2	0.7	-0.2	0.0	-0.0	0.3	-0.2	-0.1	-0.2	0.2	0.4
STD ERR OF DP		0.1	0.3	0.2	0.1	0.1	0.1	0.2	0.0	0.1	0.6	0.1	0.2	0.2	0.3	0.1	0.2	0.1	0.4	0.5
STD ERR OF P	0.1	0.1	0.4	0.3	0.0	0.2	0.2	0.2	0.1	0.0	0.6	0.0	0.2	0.2	0.3	0.0	0.1	0.0	0.5	0.6

EXERCISE: UJ03

Part S.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	5.7	-2.5#	1.1	1.0	0.4	1.3*	-1.2*	-3.9#	1.0#	-5.7#	-3.1	-0.0	2.1#	-4.4#	-2.0	-0.5	1.7	-1.6	2.2	2.8
STD ERR OF DP		0.8	0.8	0.9	1.0	0.6	0.6	0.8	0.2	0.5	1.8	1.0	0.6	1.0	1.7	0.9	1.7	1.6	1.9	1.9
P-VALUE	5.7	3.2	6.8	6.8	6.1	7.1	4.5	1.8	6.8	0.0	2.7	5.7	7.8	1.3	3.7	5.2	7.5	4.1	7.9	8.5
STD ERR OF P	0.5	0.9	0.9	1.0	1.2	0.8	0.7	0.8	0.6	0.0	1.9	1.1	0.8	1.0	1.8	0.9	1.8	1.5	2.0	2.1
AGE: 13																				
DELTA-P	27.5	-6.2*	-1.3	3.0	3.2	7.8#	-7.7#	-18.0#	4.0#	-14.5#	-9.8#	-1.4	9.1#	-8.5	-3.7	-1.1	3.2	-8.4#	1.5	14.0#
STD ERR OF DP		3.0	1.8	2.4	1.9	1.1	1.1	1.8	0.6	3.0	2.7	1.5	1.7	5.0	4.3	1.6	3.5	2.7	2.9	4.4
P-VALUE	27.5	21.3	26.2	30.5	30.7	35.3	19.8	9.5	31.4	13.0	17.7	26.1	36.6	19.0	23.8	26.4	30.6	19.1	29.0	41.5
STD ERR OF P	1.4	3.6	1.7	3.1	1.9	2.0	1.5	1.8	1.5	3.4	2.9	1.9	2.3	4.9	4.8	2.0	3.7	2.6	3.0	4.9
AGE: 17																				
DELTA-P	36.1	-6.7*	1.9	4.2	-0.6	9.7#	-9.8#	-15.2#	3.5#	-17.5#	-11.4#	-1.7	10.0#	-12.9#	-1.2	-1.5	4.2	-8.9*	4.8	9.9#
STD ERR OF DP		2.7	2.2	2.3	2.1	1.4	1.3	2.3	0.5	2.8	3.2	1.7	1.3	3.7	2.6	1.9	3.3	4.2	3.8	3.9
P-VALUE	36.1	29.4	38.0	40.3	35.5	45.8	26.3	20.9	39.6	18.6	24.7	34.4	46.1	23.2	34.9	34.7	40.4	27.2	40.9	46.0
STD ERR OF P	1.4	3.2	2.3	2.9	2.3	2.1	1.7	2.6	1.5	3.0	3.6	2.1	1.9	3.7	2.6	2.5	3.6	4.4	4.0	4.2

Report #: 0J04

NAEP #: J11003-34

Content Area: J. PROBABILITY AND STATISTICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		11-02	03-01
National P-value:			
	0J04	0.50	0.56
Timing: (in seconds)			
0J04	Exercise total:	37	*

*Time not limited by paced tape.

EXERCISE: 0J04

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	1.5	-0.5	-0.8#	0.4	0.7	-0.2	0.2	2.1	-0.6#	0.5	-0.6	0.7	-0.8#	4.1#	-0.9*	-0.6	0.0	0.0	-0.7	-0.2
STD ERR OF DP		0.4	0.3	0.4	0.5	0.2	0.2	1.1	0.2	1.0	0.4	0.5	0.3	1.4	0.4	0.3	0.7	1.0	0.5	0.7
STD ERR OF P	0.2	0.5	0.3	0.4	0.6	0.3	0.3	1.2	0.2	1.0	0.4	0.6	0.3	1.5	0.4	0.3	0.8	1.1	0.5	0.8
AGE: Ad																				
DELTA-P	0.1	-0.1	-0.2	0.1	0.1	0.0	-0.0	1.1	-0.1	0.0	0.1	0.1	-0.2	1.2	-0.2	-0.1	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.1	0.1	0.2	0.2	0.1	0.1	0.7	0.1	0.1	0.2	0.2	0.1	0.8	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.8	0.0	0.1	0.3	0.2	0.0	0.8	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	4.5	-1.5	-1.9#	1.2	1.7*	0.2	-0.3	-4.5#	0.9#	-0.4	-1.3	-1.2	1.5*	-3.5#	-4.0#	1.0	0.7	-0.5	2.1	-0.8
STD ERR OF DP		0.8	0.7	1.0	0.7	0.5	0.6	0.5	0.2	2.2	1.2	0.8	0.6	1.0	0.7	0.8	1.4	1.5	1.3	1.6
P-VALUE	4.5	3.0	2.6	5.7	6.2	4.7	4.3	-0.0	5.4	4.1	3.2	3.3	6.0	1.0	0.5	5.5	5.2	4.0	6.6	4.1
STD ERR OF P	0.5	0.9	0.6	1.4	0.7	0.8	0.6	0.0	0.6	2.4	1.2	0.8	0.9	0.9	0.4	1.0	1.5	1.6	1.5	1.7
AGE: Ad																				
DELTA-P	4.6	-1.5	0.9	-0.5	0.9	1.8#	-1.6#	-4.0#	0.6#	-2.8#	-3.8#	-1.1	7.1#	-3.5#	-0.4	0.1	1.0	-0.9	0.5	1.8
STD ERR OF DP		0.8	0.8	0.9	1.1	0.6	0.5	0.7	0.2	0.7	0.6	0.7	1.5	0.8	1.5	0.9	2.1	1.4	1.7	1.2
P-VALUE	4.6	3.0	5.4	4.1	5.5	6.3	2.9	0.6	5.1	1.8	0.7	3.5	11.6	1.1	4.2	4.7	5.5	3.6	5.0	6.3
STD ERR OF P	0.5	0.8	0.8	1.0	1.4	0.8	0.7	0.6	0.6	0.6	0.4	0.9	1.8	0.7	1.4	1.0	2.1	1.4	1.9	1.4
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	5.1	0.7	-0.3	0.1	-0.5	-0.6	0.6	[illegible].4	-1.1#	7.0#	8.0#	-2.0#	-1.9#	3.4	1.4	-0.0	-0.6	-1.5	-0.4	-2.0
STD ERR OF DP		1.3	1.1	0.8	1.0	0.5	0.6	[illegible].4	0.4	2.4	1.7	0.6	0.5	2.3	2.5	0.6	1.0	1.9	1.0	1.5
STD ERR OF P	0.6	1.4	1.3	0.9	1.1	0.7	0.9	[illegible].6	0.5	2.6	2.0	0.6	0.7	2.6	2.7	0.7	0.9	2.0	1.0	1.6
AGE: Ad																				
DELTA-P	5.3	3.4	-2.3*	-0.2	-0.1	-1.8*	1.6*	9.7#	-1.6#	3.8#	1.3	-1.9*	-4.2#	6.3	0.2	0.9	-1.1	0.7	-4.2#	-3.0*
STD ERR OF DP		2.1	1.1	1.2	1.5	0.8	0.8	3.9	0.6	1.4	1.5	0.8	1.0	3.3	2.4	0.9	1.9	2.5	0.9	1.3
STD ERR OF P	0.8	2.5	1.1	1.4	1.7	1.0	1.3	4.4	0.6	2.0	1.6	1.2	0.5	3.6	2.5	1.2	2.1	2.8	0.6	1.1

Report #: 0J05

NAEP #: J12001-234

Content Area: J. PROBABILITY AND STATISTICS

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		09-11	03-28	02-17
National P-value:				
	0J05	27.33	49.02	52.80
Timing: (in seconds)				
0J05	Exercise total:	48	48	*

*Time not limited by paced tape.

EXERCISE: UJ05

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	4.4	0.2	1.4	-2.1*	0.5	0.3	-0.4	4.1#	-1.1#	3.3	1.9	-0.5	-1.6#	4.4	0.9	-0.5	-0.4	0.8	-0.4	-1.5
STD ERR OF DP		1.2	1.2	0.9	1.1	0.5	0.5	1.5	0.4	2.4	1.9	0.6	0.5	3.3	1.4	0.7	1.6	1.8	1.5	1.3
STD ERR OF P	0.6	1.4	1.4	0.9	1.2	0.8	0.8	1.7	0.6	2.6	2.1	0.7	0.6	3.5	1.6	1.0	1.8	1.9	1.6	1.2
AGE: 17																				
DELTA-P	2.6	-0.2	0.3	0.0	-0.1	-0.3	0.3	4.2*	-0.9#	0.0	1.9	-0.5	-1.5#	7.0*	0.2	-1.0	-0.8	-0.2	0.5	-1.8*
STD ERR OF DP		0.6	0.7	0.8	0.8	0.3	0.3	2.1	0.4	0.9	1.4	0.5	0.4	3.4	0.9	0.6	0.8	1.4	1.0	0.8
STD ERR OF P	0.4	0.6	0.7	1.0	0.9	0.4	0.6	2.3	0.3	0.9	1.4	0.6	0.5	3.6	0.9	0.6	0.8	1.4	1.0	0.8
AGE: Ad																				
DELTA-P	0.6	1.3	0.1	-0.6*	-0.5	0.2	-0.2	-0.3	-0.1	0.4	-0.4	0.1	-0.2	-0.6*	0.9	-0.2	-0.4	0.1	1.3	-0.3
STD ERR OF DP		1.0	0.4	0.3	0.3	0.2	0.2	0.4	0.1	0.4	0.3	0.5	0.3	0.3	0.9	0.3	0.4	0.7	1.6	0.2
STD ERR OF P	0.3	1.2	0.5	0.0	0.1	0.5	0.2	0.3	0.3	0.5	0.2	0.7	0.3	0.0	0.9	0.2	0.2	0.7	1.9	0.3
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	27.3	-4.0	-4.1*	1.1	7.1#	2.7#	-2.9*	-24.0#	4.5#	-17.7#	-10.6#	-2.0	11.4#	-16.0#	-0.8	-4.0#	3.6	-8.9#	6.0	16.3#
STD ERR OF DP		2.8	1.8	2.1	2.2	1.1	1.2	1.2	0.6	3.2	2.4	1.4	1.1	2.7	3.2	1.6	3.5	2.8	3.9	3.1
P-VALUE	27.3	23.3	23.3	28.5	34.4	30.0	24.4	3.3	31.8	9.6	16.8	25.4	38.8	11.3	26.5	23.4	30.9	18.4	33.4	43.7
STD ERR OF P	1.3	3.4	1.8	2.3	2.6	1.7	1.8	0.9	1.3	3.4	2.3	1.9	1.8	2.6	3.5	1.9	3.7	2.9	4.1	3.2
AGE: 17																				
DELTA-P	49.0	-7.7#	0.4	2.7	3.0	1.0	-1.0	-30.4#	5.9#	-23.8#	-10.7#	0.6	9.9#	-19.8#	-7.8*	2.3	4.2	-4.5	0.9	12.4#
STD ERR OF DP		2.5	2.3	2.5	2.4	1.1	1.1	2.5	0.8	2.9	4.0	2.0	1.7	4.5	3.7	2.1	3.2	6.0	2.5	4.1
P-VALUE	49.0	41.3	49.4	51.7	52.0	50.1	48.0	18.6	55.0	25.2	38.3	49.7	58.9	29.2	41.2	51.3	53.2	44.5	49.9	61.4
STD ERR OF P	1.5	2.7	2.4	3.3	2.7	1.7	2.0	2.1	1.6	3.0	3.5	2.6	2.3	4.6	3.8	2.3	3.3	6.5	2.7	4.4
AGE: Ad																				
DELTA-P	52.8	-3.5	0.9	2.4	-0.7	7.8#	-7.3#	-31.7#	5.9#	-12.2#	-2.4	1.5	16.0#	-28.8#	0.5	1.6	3.2	-1.2	1.6	11.5#
STD ERR OF DP		3.4	3.2	2.3	2.7	1.3	1.2	3.2	0.7	2.0	2.7	1.9	2.3	3.6	4.4	2.0	3.6	5.7	3.2	2.5
P-VALUE	52.8	49.3	53.7	55.2	52.1	60.6	45.5	21.1	58.7	40.6	50.4	54.3	68.8	24.0	53.3	54.4	56.0	51.6	54.4	64.3
STD ERR OF P	1.7	3.9	4.0	2.5	2.9	1.9	2.2	3.2	1.7	2.5	3.1	2.4	2.6	3.6	4.3	2.9	4.1	5.7	3.4	2.8
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	19.5	5.1*	2.2	0.1	-7.4#	-2.8#	3.1#	18.2#	-3.1#	10.7#	7.7*	-3.4#	-5.6#	13.5	0.3	3.6#	-4.2	4.8	-4.1	-11.7#
STD ERR OF DP		2.3	1.9	1.9	1.4	0.8	0.8	2.9	0.6	3.7	3.4	1.1	1.2	8.1	3.4	1.3	2.5	2.7	2.4	2.1
STD ERR OF P	1.1	2.8	2.1	2.2	1.2	1.3	1.4	3.4	1.0	3.8	3.8	1.6	1.3	8.5	3.9	1.7	2.5	2.6	2.4	1.9
AGE: 17																				
DELTA-P	[illegible]	[illegible]	[illegible]	-1.5	-0.5	-1.8#	1.7#	10.0#	-2.0#	11.8#	2.4	0.2	-4.5#	6.8#	2.1	0.1	-0.3	0.0	-1.8	-3.9#
STD ERR OF DP		[illegible]	[illegible]	1.1	1.3	0.7	0.7	2.3	0.5	2.9	2.0	0.9	0.8	2.7	2.6	1.1	1.5	3.0	[illegible]	1.6
STD ERR OF P	0.7	[illegible]	[illegible]	1.4	1.6	0.9	1.1	2.5	0.7	3.2	2.3	1.1	0.7	2.8	2.8	1.3	1.5	3.3	1.7	1.5
AGE: Ad																				
DELTA-P	11.4	[illegible]	[illegible]	[illegible]	-2.2	-4.6#	4.3#	14.3#	-2.9#	3.6*	-0.9	-2.3	-4.4#	8.4*	2.8	0.3	1.8	3.4	-5.3#	-7.6#
STD ERR OF DP		[illegible]	[illegible]	[illegible]	1.6	0.8	0.8	3.4	0.5	1.6	2.0	1.2	1.4	3.5	3.6	1.0	1.8	3.4	1.7	1.4
STD ERR OF P	1.0	[illegible]	[illegible]	1.8	1.8	1.0	1.5	3.6	0.9	2.0	2.1	1.5	1.5	3.9	3.8	1.4	2.0	3.5	1.9	1.2

Report #: 0J06

NAEP #: J12010-34

Content Area: J. PROBABILITY AND STATISTICS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:	17	Adult
Package-Exercise:	10-04	07-24
National P-value:		
0J06	2.73	4.55
Timing: (in seconds)		
0J06 Exercise total:	26	*

*Time not limited by paced tape.

EXERCISE: UJ06

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective V.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	2.3	-0.2	0.9	-0.8*	0.2	0.3	-0.3	2.7#	-0.8#	1.2	-0.5	-0.2	-0.5	3.1	-0.3	0.1	0.3	-0.7	-1.2	-0.6
STD ERR OF DP		0.5	0.7	0.4	0.5	0.4	0.4	0.8	0.2	1.3	0.7	0.6	0.4	1.8	1.0	0.5	0.8	1.1	0.7	0.7
STD ERR OF P	0.3	0.5	0.8	0.3	0.6	0.6	0.4	0.9	0.3	1.4	0.7	0.6	0.4	1.9	1.1	0.6	0.8	1.1	0.7	0.7
AGE: Ad																				
DELTA-P	0.6	0.1	-0.4	0.2	0.1	0.0	-0.0	-0.6#	0.1	-0.1	0.5	0.3	-0.4*	-0.6#	0.4	0.2	-0.6#	0.7	-0.6#	0.0
STD ERR OF DP		0.4	0.2	0.4	0.3	0.2	0.2	0.2	0.1	0.2	0.7	0.3	0.2	0.2	0.7	0.2	0.2	0.9	0.2	0.4
STD ERR OF P	0.2	0.4	0.2	0.4	0.4	0.3	0.2	0.0	0.2	0.3	0.8	0.4	0.1	0.0	0.7	0.3	0.0	1.0	0.0	0.5
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	2.7	-0.4	0.6	-0.7	0.6	1.2*	-1.1*	-1.7	0.2	-1.6	-1.9#	0.1	1.1*	-1.8	-2.4#	-0.4	2.4	-0.1	-1.4	3.5*
STD ERR OF DP		0.9	1.0	0.6	0.7	0.5	0.5	1.0	0.2	1.1	0.6	0.6	0.5	1.0	0.6	0.6	1.6	1.4	0.8	1.5
P-VALUE	2.7	2.3	3.4	2.0	3.3	3.9	1.6	1.0	3.0	1.1	0.9	2.8	3.8	1.0	0.4	2.4	5.2	2.7	1.4	6.2
STD ERR OF P	0.5	1.0	1.2	0.6	0.7	0.8	0.5	1.0	0.5	1.1	0.6	0.8	0.8	1.0	0.4	0.7	1.8	1.4	0.8	1.6
AGE: Ad																				
DELTA-P	4.6	0.1	-0.1	0.0	0.0	3.2#	-3.0#	-4.6#	0.6#	-2.6#	-2.6#	-0.4	5.1#	-4.6#	-1.6	-2.1#	3.8	0.2	-2.2	8.7#
STD ERR OF DP		1.1	0.7	0.8	0.7	0.6	0.5	0.5	0.2	0.8	0.6	0.8	1.2	0.5	1.5	0.7	2.5	1.4	1.3	2.6
P-VALUE	4.6	4.6	4.4	4.6	4.6	7.7	1.6	-0.0	5.1	2.0	2.0	4.1	9.7	-0.0	3.0	2.5	8.4	4.7	2.4	13.2
STD ERR OF P	0.5	1.4	0.7	1.0	0.9	0.9	0.4	0.0	0.6	0.6	0.7	1.0	1.5	0.0	1.4	0.6	2.8	1.4	1.2	2.9
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	15.0	-1.8	1.6	2.2	-2.6	-2.7#	2.5#	1.2	-0.6	5.1	2.6	-2.6#	-1.4	-0.3	5.2	-1.6	0.9	1.5	-0.9	0.7
STD ERR OF DP		2.0	1.8	2.0	1.8	0.9	0.8	2.4	0.5	2.7	2.0	1.0	0.9	2.4	4.3	1.4	3.3	3.7	2.2	2.4
STD ERR OF P	1.1	2.2	2.0	2.5	1.9	1.4	1.4	2.7	1.2	2.9	2.3	1.4	1.5	2.3	4.6	1.7	3.7	3.9	2.3	2.3
AGE: Ad																				
DELTA-P	20.6	1.3	0.1	-4.3*	3.5	-7.2#	6.7#	1.7	-0.9	0.4	-4.9*	1.3	0.5	4.7	-0.8	0.0	-4.4	3.6	-2.5	0.6
STD ERR OF DP		3.1	2.1	2.0	2.8	1.4	1.3	2.9	0.5	2.0	2.2	1.7	1.8	3.7	3.6	1.4	3.0	4.4	3.4	3.4
STD ERR OF P	1.4	3.6	2.3	2.2	3.4	1.8	2.0	3.2	1.5	2.4	2.5	2.5	2.1	4.0	3.7	2.1	3.1	4.3	3.6	3.7

Report #: UJ07

NAEP #: J21009-234

Content Area: J. PROBABILITY AND STATISTICS

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		05-33	09-23	05-03
National P-value:				
	UJ07	12.47	14.57	17.91

Timing: (in seconds)				
UJ07	Exercise total:	69	66	*

*Time not limited by paced tape.

EXERCISE: UJ07

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	4.0	-3.1#	5.1	-1.7	-0.4	1.4*	-1.4*	-0.6	-0.3	-0.5	-0.1	-0.8	-1.2	-1.3	0.4	-3.0#	-2.9#	2.1	8.5	-2.6*
STD ERR OF DP		1.1	2.6	1.1	1.8	0.6	0.6	1.1	0.2	2.1	1.2	0.7	0.9	1.1	1.6	1.1	1.2	3.3	4.3	1.2
STD ERR OF P	1.0	0.4	3.5	0.5	2.0	1.5	0.8	1.1	1.0	2.2	1.8	1.0	0.8	0.9	1.3	0.4	0.6	3.7	5.1	0.7
AGE: 17																				
DELTA-P	1.2	0.4	-0.4	0.6	-0.6	0.4	-0.4	2.8	-0.5	0.3	0.4	0.4	-0.5*	-0.2	-0.8	-0.2	2.2	-0.8	0.3	-0.7
STD ERR OF DP		0.7	0.5	0.8	0.4	0.3	0.2	2.0	0.3	0.8	0.7	0.4	0.2	0.7	0.4	0.5	2.2	0.5	0.7	0.5
STD ERR OF P	0.3	0.7	0.5	1.0	0.2	0.5	0.3	2.3	0.2	0.8	0.7	0.7	0.3	0.7	0.4	0.4	2.4	0.4	0.8	0.4
AGE: Ad																				
DELTA-P	0.1	-0.1	0.1	-0.1	0.2	-0.1	0.1	-0.1	0.0	-0.1	-0.1	0.3	-0.1	-0.1	-0.1	0.1	-0.1	0.4	-0.1	-0.1
STD ERR OF DP		0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1
STD ERR OF P	0.1	0.0	0.2	0.0	0.3	0.0	0.2	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.2	0.0	0.6	0.0	0.0
RESPONSE: 10* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	12.5	0.2	-0.2	-0.8	1.1	0.2	-0.2	-4.0*	0.9#	-0.8	-0.2	0.2	2.3*	-3.9	-0.8	0.5	0.5	1.9	-0.2	-0.3
STD ERR OF DP		1.6	1.5	1.1	1.6	0.8	0.8	1.8	0.3	2.7	2.2	1.0	0.9	2.4	2.4	1.3	2.5	2.3	1.8	2.4
P-VALUE	12.5	12.7	12.2	11.7	13.6	12.6	12.3	8.5	13.3	11.7	12.3	12.6	14.7	8.6	11.7	13.0	12.9	14.4	12.3	12.2
STD ERR OF P	0.8	1.8	1.8	1.2	1.9	1.1	1.2	1.9	0.9	3.0	2.3	1.3	1.3	2.3	2.5	1.4	2.8	2.5	2.0	2.6
AGE: 17																				
DELTA-P	14.6	-0.7	-0.8	0.5	0.7	0.8	-0.7	-7.8#	1.9#	-5.3#	-4.4#	-1.4	3.2#	-4.9#	1.2	1.5	3.1	-1.5	-2.8	0.6
STD ERR OF DP		1.5	1.4	1.3	1.4	0.7	0.7	1.5	0.4	1.9	1.7	1.1	0.8	1.9	1.9	1.1	2.9	1.9	2.0	2.2
P-VALUE	14.6	13.9	13.8	15.1	15.3	15.3	13.9	6.8	16.4	9.3	10.1	13.1	17.8	9.7	15.7	16.1	17.6	13.1	11.8	15.1
STD ERR OF P	0.8	1.7	1.6	1.5	1.7	1.1	1.0	1.4	1.0	1.8	1.7	1.4	1.3	2.0	1.9	1.2	3.1	1.9	2.2	2.4
AGE: Ad																				
DELTA-P	17.9	-0.3	-1.4	-0.5	2.2	2.4*	-2.2*	-6.3#	1.5#	-5.7#	-5.0#	0.8	9.2#	-6.9#	-4.4*	-1.0	-0.2	4.3	0.4	7.6*
STD ERR OF DP		1.6	1.6	1.9	1.5	1.0	1.0	2.2	0.3	1.2	2.0	1.6	2.0	1.9	2.2	1.4	3.0	3.2	3.2	3.4
P-VALUE	17.9	17.6	16.5	17.4	20.1	20.3	15.7	11.6	19.5	12.3	12.9	18.7	27.1	11.0	13.5	16.9	17.7	22.2	18.3	25.6
STD ERR OF P	1.0	1.6	1.8	2.4	1.6	1.7	1.0	2.2	1.1	1.3	2.0	2.0	2.4	1.9	2.2	1.7	3.3	3.2	3.2	3.8
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	7.0	0.1	-0.3	0.5	-0.3	-0.8	0.8	1.3	-0.3	0.3	1.4	-1.7#	-0.6	1.6	2.1	-1.0	-0.3	0.6	-0.7	0.3
STD ERR OF DP		0.9	1.1	0.9	1.2	0.7	0.7	1.3	0.2	2.1	2.0	0.7	0.7	2.3	1.9	0.7	1.4	1.7	1.5	2.1
STD ERR OF P	0.6	0.9	1.3	1.0	1.4	0.9	0.8	1.3	0.6	2.0	2.0	0.9	0.9	2.5	2.0	0.7	1.5	1.7	1.8	2.3
AGE: 17																				
DELTA-P	4.7	0.5	1.1	-1.4*	0.1	0.8	-0.8	-1.1	-0.1	5.1#	2.6*	-1.4*	-1.1*	2.0	-2.8#	1.2	-0.5	-2.1	-0.2	-0.9
STD ERR OF DP		0.8	0.9	0.7	0.8	0.5	0.4	1.1	0.2	2.0	1.2	0.7	0.5	1.6	0.9	0.7	1.1	1.1	1.3	1.2
STD ERR OF P	0.5	0.9	1.0	0.7	1.0	0.7	0.6	1.1	0.5	2.2	1.3	0.7	0.7	1.7	0.8	0.9	1.2	1.1	1.5	1.2
AGE: Ad																				
DELTA-P	4.7	1.4	-1.1	-0.9	0.8	-0.8	0.7	6.6#	-1.2#	4.4#	-1.0	-1.1	-3.7#	4.1	0.8	0.4	-1.4	1.1	-0.6	-3.4#
STD ERR OF DP		1.0	0.8	0.9	0.9	0.5	0.5	1.8	0.4	1.1	1.0	0.8	0.7	2.3	2.1	0.7	1.3	2.0	1.7	0.9
STD ERR OF P	0.5	1.1	0.9	1.1	1.1	0.6	0.8	2.1	0.5	1.4	1.1	0.9	0.5	2.6	2.1	0.9	1.2	2.1	1.8	0.7

Report #: UJ08

NAEP #: J21010-34

Content Area: J. PROBABILITY AND STATISTICS

Objective: I. Recall and/or Recognition of Definitions,
Facts, and Symbols.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		03-02	07-31
National P-value:			
	UJ08	68.99	66.45

Timing: (in seconds)
UJ08 Exercise total: 45 *

*Time not limited by paced tape.

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                                NATION |             REGION             |      SEX       |     RACE       |     PARENTAL EDUCATION         |          SIZE-AND-TYPE OF COMMUNITY
                                       | SOUTH                   NORTH  |                |                |          SOME    GRAD   POST   |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                                _______|_EAST__WEST_CENTRAL__EAST__|__MALE__FEMALE_|_BLACK__WHITE_|_NO HS___HS_____HS_____HS___|_METRO_RURAL__PLACES__CITY_BIG CTY FRINGE METRO

EXERCISE: UJ08

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective I.


RESPONSE:  00     AGE: 17       TEXT:  No Response.

   DELTA-P                       0.4     0.1   -0.2    0.4   -0.3     0.1   -0.1     1.8   -0.3    -0.5*   0.4   -0.1    0.0     1.4   -0.3   -0.3   -0.1    0.3    0.5   -0.5*
   STD ERR OF DP                         0.3    0.2    0.4    0.2     0.1    0.1   . 1.1    0.2     0.2    0.7    0.3    0.2     1.0    0.2    0.2    0.3    0.6    0.5    0.2
   STD ERR OF P                  0.2     0.4    0.2    0.6    0.1     0.3    0.2     1.3    0.1     0.0    0.7    0.3    0.4     1.1    0.2    0.1    0.2    0.7    0.6    0.0

                  AGE: Ad

   DELTA-P                       0.0    -0.0    0.1   -0.0   -0.0    -0.0    0.2     0.2   -0.0    -0.0   -0.0   -0.0   -0.0    -0.0   -0.0    0.0   -0.0   -0.0   -0.0   -0.0
   STD ERR OF DP                         0.0    0.1    0.0    0.0     0.0    0.0     0.3    0.0     0.0    0.0    0.0    0.0     0.0    0.0    0.0    0.0    0.0    0.0    0.0
   STD ERR OF P                  0.0     0.0    0.1    0.0    0.0     0.0    0.1     0.3    0.0     0.0    0.0    0.0    0.0     0.0    0.0    0.1    0.0    0.0    0.0    0.0

RESPONSE:  01*    AGE: 17       TEXT:  All Acceptable Responses.

   DELTA-P                      69.0    -4.2   -1.0    2.9    1.0    -0.9    0.9   -11.3#   2.2#  -15.5#  -3.1    1.7    4.6#   -6.3   -8.9#   0.2    1.5    5.2    1.6    4.2
   STD ERR OF DP                         2.3    2.5    1.8    2.3     1.1    1.1     3.1    0.6     3.5    3.0    1.6    1.4     4.3    3.3    1.5    2.3    3.5    3.3    4.9
   P-VALUE                      69.0    64.8   68.0   71.9   70.0    68.1   69.9    57.7   71.2    53.5   65.9   70.7   73.6    62.7   60.1   69.2   70.5   74.1   70.5   73.2
   STD ERR OF P                  1.3     2.7    2.8    2.0    2.8     1.8    1.6     3.4    1.4     3.7    3.1    1.8    2.0     4.5    3.5    1.5    2.6    3.6    3.6    5.4

                  AGE: Ad

   DELTA-P                      66.5    -2.9    1.4    1.4   -0.6     0.9   -0.9   -17.0#   2.9#  -10.5#   1.1    1.2   10.8#   -9.8*   0.0   -3.3#   2.4   -2.2    5.7   10.8#
   STD ERR OF DP                         2.4    2.0    1.7    2.3     1.2    1.1     3.9    0.7     2.5    2.9    2.1    2.1     4.6    5.3    1.3    3.0    4.9    3.8    2.6
   P-VALUE                      66.5    63.6   67.8   67.9   65.9    67.4   65.6    49.4   69.3    56.0   67.5   67.6   77.3    56.6   66.5   63.2   68.8   64.2   72.2   77.2
   STD ERR OF P                  1.2     2.6    2.3    1.9    2.8     1.9    1.5     3.9    1.4     3.2    2.8    2.2    2.1     4.6    5.6    1.8    3.1    5.0    3.9    2.9

RESPONSE:  09     AGE: 17       TEXT:  I Don't Know.

   DELTA-P                       6.6     0.1    0.8   -1.3    0.8     0.4   -0.4     4.3*  -1.0#    2.0    1.6   -0.8   -0.9     6.7#  -1.0    0.5   -1.1   -1.3   -1.3   -0.9
   STD ERR OF DP                         1.1    1.1    0.9    1.4     0.6    0.6     1.8    0.3     2.2    1.9    0.9    0.8     2.6    1.5    1.0    1.0    1.5    1.6    1.9
   STD ERR OF P                  0.7     1.1    1.1    1.0    1.8     0.9    0.9     1.9    0.7     2.4    2.0    1.0    0.9     2.8    1.6    1.3    0.9    1.4    1.8    2.0

                  AGE: Ad

   DELTA-P                       8.0     0.7   -0.7   -0.7    0.9    -0.4    0.4     3.4   -0.8*    1.9   -2.2   -0.6   -1.4    -2.1   -2.8    0.8   -1.3    1.4    3.5   -2.1
   STD ERR OF DP                         1.4    1.2    1.2    1.1     0.8    0.8     2.0    0.3     1.6    1.5    1.3    1.4     1.8    1.6    0.9    2.0    2.4    2.9    1.4
   STD ERR OF P                  0.7     1.6    1.3    1.5    1.3     1.2    0.9     2.1    0.8     1.9    1.4    1.3    1.5     1.8    1.7    1.2    2.1    2.5    3.1    1.8
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Report #: UJ09

NAEP #: J21014-34

Content Area: J. PROBABILITY AND STATISTICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:	17	Adult
Package-Exercise:	01-06	02-22
National P-value:		
UJ09	18.97	37.89

Timing: (in seconds)		
UJ09 Exercise total:	110	*

*Time not limited by paced tape.

EXERCISE: UJ09

This unreleased exercise dealt with PROBABILITY AND STATISTICS at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE. 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.6	-0.5#	0.3	-0.5#	0.5	-0.1	0.0	1.7*	-0.4#	0.4	0.1	-0.1	-0.3	1.4	0.6	-0.5#	0.0	0.9	0.1	-0.6#
STD ERR OF DP		0.2	0.3	0.1	0.3	0.2	0.2	0.8	0.2	0.9	0.5	0.3	0.2	1.2	1.1	0.2	0.4	0.9	0.5	0.1
STD ERR OF P	0.1	0.1	0.3	0.1	0.4	0.2	0.3	0.8	0.1	1.0	0.5	0.3	0.2	1.2	1.2	0.1	0.4	0.9	0.5	0.0
AGE: Ad																				
DELTA-P	0.3	0.9	-0.3	-0.3	-0.1	0.1	-0.1	0.1	0.0	-0.3	0.1	0.4	-0.3	-0.3	-0.3	-0.0	-0.3	-0.3	1.5	-0.3
STD ERR OF DP		0.8	0.2	0.2	0.3	0.2	0.2	0.5	0.1	0.2	0.4	0.5	0.2	0.2	0.2	0.3	0.2	0.2	1.6	0.2
STD ERR OF P	0.2	1.0	0.0	0.0	0.3	0.5	0.2	0.5	0.3	0.0	0.4	0.7	0.0	0.0	0.0	0.2	0.0	0.0	1.9	0.0
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	19.0	-3.6*	-2.4	2.7	2.6	1.4	-1.3	-12.7#	2.3#	-11.8#	-4.9*	-1.7	5.6#	-10.5#	0.3	0.8	-1.0	5.0	-3.7	5.2*
STD ERR OF DP		1.8	1.7	2.0	1.7	1.1	1.0	2.0	0.4	1.8	2.2	1.2	0.9	2.3	3.2	1.2	2.3	3.6	2.4	2.4
P-VALUE	19.0	15.3	16.6	21.7	21.6	20.4	17.6	6.3	21.2	7.2	14.1	17.3	24.6	8.5	19.3	19.8	18.0	23.9	15.3	24.2
STD ERR OF P	1.0	1.9	1.8	2.4	2.0	1.5	1.5	1.9	1.1	1.7	2.2	1.6	1.3	2.3	3.4	1.7	2.4	3.8	2.5	2.4
AGE: Ad																				
DELTA-P	37.9	-2.9	1.7	1.0	-0.4	7.6#	-7.1#	-27.6#	4.4#	-9.5#	-5.2	2.5	13.2#	-19.7#	3.2	-1.6	-3.0	-0.9	9.0*	11.7#
STD ERR OF DP		2.8	2.7	2.0	2.6	1.2	1.2	2.4	0.5	2.0	2.7	1.7	2.1	2.9	4.7	1.6	3.8	5.7	4.0	3.1
P-VALUE	37.9	35.0	39.5	38.9	37.5	45.5	30.8	10.3	42.3	28.4	32.7	40.4	51.1	18.2	41.1	36.3	34.9	37.0	46.9	49.6
STD ERR OF P	1.4	3.1	3.2	2.1	3.0	1.8	1.9	1.9	1.5	2.5	2.7	2.3	2.3	2.9	5.0	2.0	4.2	5.8	4.1	3.4
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	4.6	0.7	0.1	0.1	-0.7	-0.3	0.3	3.8*	-0.8#	5.4	2.3	-1.3	-1.4#	5.0*	1.2	-0.4	-0.3	-0.4	1.8	-3.6#
STD ERR OF DP		1.1	1.0	0.9	0.8	0.5	0.5	1.7	0.3	2.8	1.3	0.7	0.5	2.0	2.0	0.6	1.1	1.4	1.9	0.7
STD ERR OF P	0.5	1.2	1.3	1.0	0.9	0.7	0.8	1.8	0.5	3.0	1.3	0.8	0.8	2.1	2.0	0.8	1.0	1.5	2.1	0.6
AGE: Ad																				
DELTA-P	7.7	-0.3	1.4	-1.3	0.3	-3.6#	3.3#	8.6#	-1.7#	3.1	3.1	-2.4*	-4.7#	7.4*	0.8	0.7	-2.6	0.7	-0.1	-5.6#
STD ERR OF DP		1.3	1.2	1.1	1.4	0.7	0.6	2.9	0.4	1.6	2.0	1.1	0.9	3.3	2.3	0.9	1.7	3.1	1.7	1.3
STD ERR OF P	0.7	1.4	1.3	1.3	1.7	0.8	1.1	3.1	0.7	1.9	2.0	1.3	0.8	3.4	2.3	1.2	1.3	3.2	1.7	1.3

Report #: UK01

NAEP #: K10010-234

Content Area: K. GEOMETRY

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:		13	17	Adult
Package-Exercise:		09-26	11-25	07-02
National P-value:				
	UK01	32.87	56.39	52.86
Timing: (in seconds)				
UK01	Exercise total:	30	30	*

*Time not limited by paced tape.

EXERCISE: UK01

This unreleased exercise dealt with GEOMETRY at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	4.5	2.1	2.8	-2.0	-3.0*	0.2	-0.2	1.2	-0.3	-0.4	0.5	1.2	-2.2*	5.2	-1.0	-0.6	1.0	-0.4	2.6	-3.8*
STD ERR OF DP		2.5	2.6	1.4	1.3	0.6	0.7	1.7	0.3	1.6	1.8	0.7	0.7	4.4	2.1	1.6	1.8	2.0	4.5	1.3
STD ERR OF P	1.2	3.0	3.3	1.0	0.7	1.1	1.6	1.4	1.3	2.4	2.1	1.7	0.9	4.3	2.0	2.1	1.7	1.8	5.2	0.6
AGE: 17																				
DELTA-P	2.0	-0.4	2.2	-1.5*	-0.2	0.4	-0.4	3.0	-0.6	2.0	-0.1	-0.5	-0.1	5.5	-1.0	-1.5*	-1.8*	-2.0*	-0.8	5.5
STD ERR OF DP		0.9	1.8	0.7	0.8	0.2	0.3	2.2	0.4	1.9	1.4	0.7	1.0	3.0	0.8	0.7	0.7	1.7	0.9	6.0
STD ERR OF P	0.7	0.8	2.4	0.3	0.7	0.7	0.6	2.1	0.6	1.9	1.2	0.5	1.5	3.0	0.4	0.3	0.2	0.0	0.7	6.5
AGE: Ad																				
DELTA-P	0.4	0.0	0.0	-0.3	0.3	-0.1	0.1	0.8	-0.1	-0.2	0.7	-0.2	-0.1	0.1	0.6	0.0	-0.1	0.5	-0.4*	-0.4*
STD ERR OF DP		0.3	0.3	0.2	0.4	0.2	0.2	0.6	0.1	0.2	0.7	0.2	0.2	0.5	0.9	0.2	0.3	0.8	0.2	0.2
STD ERR OF P	0.2	0.4	0.3	0.1	0.5	0.3	0.2	0.7	0.2	0.1	0.8	0.2	0.2	0.5	0.9	0.3	0.2	0.9	0.0	0.0
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	32.9	-6.2*	-6.0*	6.5*	5.5*	5.4*	-5.9*	-17.6*	3.6*	-19.3*	-12.0*	-2.1	10.4*	-10.0	-2.1	-4.5*	5.0	-1.7	0.6	14.8*
STD ERR OF DP		2.6	2.2	1.9	2.7	1.1	1.2	2.4	0.6	2.9	3.3	1.7	1.3	5.6	5.2	2.1	3.7	4.0	3.2	2.8
P-VALUE	32.9	26.7	26.9	39.4	38.4	38.3	27.0	15.2	36.4	13.6	20.9	30.8	43.2	22.9	30.7	28.4	37.9	31.2	33.5	47.6
STD ERR OF P	1.3	2.9	2.5	2.0	3.3	1.6	1.9	2.2	1.5	3.0	3.3	1.9	2.0	5.5	5.3	2.4	4.1	4.2	3.5	2.8
AGE: 17																				
DELTA-P	56.4	-8.6*	2.3	1.4	3.0	7.7*	-8.1*	-23.5*	4.4*	-20.5*	-17.4*	-0.3	11.6*	-23.8*	-4.3	2.5	8.0*	-2.1	5.7	2.7
STD ERR OF DP		2.9	3.0	2.0	3.1	1.3	1.5	2.6	0.7	3.6	3.4	2.2	1.7	4.3	3.0	2.2	3.4	4.4	3.1	5.6
P-VALUE	56.4	47.8	58.7	57.7	59.4	64.1	48.3	32.9	60.8	35.9	39.0	56.1	68.0	32.6	52.1	58.9	64.4	54.3	62.0	59.1
STD ERR OF P	1.6	3.2	3.7	2.0	3.6	2.3	1.7	2.5	1.9	3.8	3.4	2.6	2.4	4.0	2.9	2.9	3.4	4.4	3.7	5.9
AGE: Ad																				
DELTA-P	52.9	-5.7	-0.1	2.6	2.0	8.8*	-8.1*	-26.2*	4.1*	-13.4*	-9.9*	3.5	17.3*	-19.2*	-7.7*	0.4	-1.1	-2.3	0.6	18.0*
STD ERR OF DP		3.1	2.1	2.4	2.6	1.5	1.3	4.0	0.6	2.2	2.6	1.9	2.1	4.5	3.6	1.9	3.7	4.8	3.6	3.9
P-VALUE	52.9	47.2	52.7	55.5	54.9	61.6	44.7	26.7	56.9	39.4	43.0	56.3	70.1	33.7	45.2	53.2	51.8	50.6	53.4	70.9
STD ERR OF P	1.4	3.6	2.3	2.7	3.0	1.9	2.0	4.3	1.4	2.6	2.7	2.5	2.2	4.6	3.6	2.5	3.9	5.0	4.0	4.0
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	8.6	3.6*	0.2	-0.7	-2.9*	-0.7	0.8	10.6*	-1.9*	3.7	6.8*	-0.9	-3.7*	9.1	2.9	-0.2	0.9	2.4	-2.3	-6.6*
STD ERR OF DP		1.7	1.2	1.3	0.9	0.6	0.7	2.5	0.4	2.6	2.4	0.9	0.7	4.7	2.8	0.9	1.6	2.3	1.6	1.1
STD ERR OF P	0.8	2.1	1.3	1.6	0.7	0.9	1.0	2.8	0.8	2.6	2.7	1.2	0.8	4.9	3.1	1.0	1.6	2.4	1.7	0.9
AGE: 17																				
DELTA-P	7.3	1.0	0.5	0.3	-1.6	-2.7*	2.8*	8.7*	-1.7*	6.3*	6.0*	-0.3	-3.2*	5.1*	0.6	0.1	0.3	-2.6	-1.6	-1.2
STD ERR OF DP		1.1	1.2	0.8	1.0	0.5	0.5	2.0	0.3	2.2	2.0	0.8	0.6	2.2	2.3	0.9	1.5	1.7	1.5	1.8
STD ERR OF P	0.6	1.3	1.5	0.9	1.1	0.6	0.9	2.3	0.6	2.4	2.1	0.9	0.7	2.3	2.4	1.1	1.5	1.8	1.5	1.8
AGE: Ad																				
DELTA-P	13.7	3.7	-2.3	-1.1	0.6	-5.3*	4.9*	15.0*	-2.5*	8.1*	1.2	-3.8*	-6.2*	6.5	1.7	0.4	2.4	-1.8	-1.3	-6.2*
STD ERR OF DP		2.1	1.8	2.0	1.7	0.8	0.8	3.7	0.6	1.9	2.1	1.4	1.5	3.3	2.4	1.2	4.0	3.6	2.3	2.1
STD ERR OF P	1.1	2.3	2.0	2.5	1.9	1.2	1.5	4.2	1.0	2.7	2.4	1.3	1.6	3.3	2.2	1.8	4.5	3.8	2.3	2.2

Report #: UK02

NAEP #: K10015-12

Content Area: K. GEOMETRY

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		01-09	02-25
National P-value:			
	UK02	0.22	19.31

Timing: (in seconds)			
UK02	Exercise total:	31	27

EXERCISE: UK02

This unreleased exercise dealt with GEOMETRY at the level of Objective III.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	38.2	-0.1	-3.2	2.6	0.5	1.8	-1.9	-1.3	-0.3	-0.6	0.4	3.0	-1.8	-0.4	-9.1	7.5*	-1.5	7.9	-13.1#	-4.1
STD ERR OF DP		3.4	4.4	3.9	4.1	1.0	1.0	4.6	0.9	4.5	4.6	2.2	1.9	5.4	6.5	3.3	4.5	5.2	4.7	5.9
STD ERR OF P	2.3	3.3	5.3	4.6	4.8	2.6	2.5	4.8	2.6	5.0	4.5	3.5	3.1	5.5	7.1	4.3	4.4	5.6	4.7	6.5
AGE: 13																				
DELTA-P	14.2	5.1*	-1.8	-0.8	-2.0	1.9#	-1.9#	6.4#	-1.5#	8.9*	4.2	0.3	-3.7#	13.2#	2.3	0.5	-0.0	1.9	-5.5#	-5.8#
STD ERR OF DP		2.1	1.4	1.6	1.6	0.8	0.7	2.4	0.5	3.8	2.5	1.4	1.0	3.5	4.8	1.5	2.7	2.5	1.6	2.0
STD ERR OF P	1.0	2.5	1.4	2.0	1.7	1.2	1.2	2.6	1.1	4.3	2.7	1.6	1.3	3.6	5.2	1.7	2.7	2.7	1.5	2.1
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	0.2	-0.1	0.1	0.2	-0.2	0.2*	-0.2	-0.2	0.1*	-0.2	-0.2	0.2	0.2	-0.2	-0.2	0.2	0.0	0.3	-0.2	-0.2
STD ERR OF DP		0.2	0.2	0.3	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.3	0.2	0.1	0.1	0.2	0.2	0.5	0.1	0.1
P-VALUE	0.2	0.2	0.3	0.4	-0.0	0.5	-0.0	-0.0	0.3	-0.0	-0.0	0.5	0.4	-0.0	-0.0	0.4	0.2	0.5	-0.0	-0.0
STD ERR OF P	0.1	0.2	0.3	0.3	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.3	0.3	0.0	0.0	0.3	0.2	0.5	0.0	0.0
AGE: 13																				
DELTA-P	19.3	-8.5#	0.3	2.6	4.6	-0.9	0.8	-15.5#	3.1#	-8.7#	-9.6#	-0.2	6.8#	-15.3#	-2.6	-3.5	0.6	1.4	6.5*	10.3
STD ERR OF DP		2.5	2.2	2.6	3.0	0.9	0.9	1.6	0.4	2.6	2.0	1.9	1.8	2.2	4.3	2.3	5.5	3.0	3.1	5.3
P-VALUE	19.3	10.8	19.6	21.9	23.9	18.5	20.2	3.8	22.4	10.6	9.7	19.1	26.1	4.0	16.7	15.8	19.9	20.7	25.8	29.6
STD ERR OF P	1.5	2.7	2.2	3.3	3.6	1.7	1.8	1.3	1.6	2.4	2.0	2.6	2.3	1.8	4.4	2.4	6.0	3.2	3.2	6.0
RESPONSE: IV AGE: 9 TEXT: I Don't Know.																				
DELTA-P	24.8	-7.0#	0.2	2.4	3.4	-2.0*	2.0*	-8.8*	1.6	-3.3	-11.0#	-6.7#	-0.3	-4.9	6.7	-10.0#	-6.0	7.4	16.9*	5.1
STD ERR OF DP		2.7	4.1	4.1	3.5	1.0	1.0	4.0	0.8	4.4	2.8	1.7	1.8	6.9	8.7	2.7	4.5	5.7	6.8	5.2
STD ERR OF P	2.2	2.1	4.9	5.1	3.9	2.5	2.3	4.2	2.4	5.0	2.8	2.7	2.9	7.3	9.6	3.0	4.1	5.7	7.5	5.5
AGE: 13																				
DELTA-P	5.6	1.5	-0.4	-1.7	1.0	-0.3	0.3	6.3#	-1.2#	3.0	0.9	-0.3	-1.6*	10.5#	-0.4	-0.3	0.1	-0.8	-1.0	-2.7
STD ERR OF DP		1.4	1.1	0.9	1.2	0.6	0.6	1.9	0.3	2.1	1.7	0.8	0.8	3.9	1.6	1.0	1.5	1.4	1.7	1.5
STD ERR OF P	0.6	1.6	1.2	0.9	1.4	0.9	0.8	2.3	0.6	2.2	1.9	1.0	0.8	4.2	1.6	1.2	1.6	1.3	1.8	1.5

Report #: UK03

NAEP #: K11004-12

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		03-06	04-18
National P-value:			
	UK03	3.85	54.76

Timing: (in seconds)

UK03	Exercise total:	23	24

EXERCISE: UK03

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	5.6	0.6	-1.6	1.4	-0.5	0.9	-1.0	5.5*	-1.3*	-0.1	-2.4	-0.3	-1.2	1.6	4.3	-0.7	2.3	1.8	-1.7	-3.3*
STD ERR OF DP		1.1	0.9	1.1	1.1	0.5	0.6	2.2	0.5	1.8	1.6	1.1	0.7	2.3	3.4	0.8	2.3	2.6	1.2	1.1
STD ERR OF P	0.6	1.2	0.9	1.3	1.3	0.9	0.7	2.5	0.5	2.0	1.6	1.2	0.8	2.4	3.5	0.9	2.5	2.7	1.3	1.0
AGE: 13																				
DELTA-P	1.2	0.4	-0.1	0.1	-0.3	-0.3	0.4	3.4*	-0.6*	-0.7	0.1	-0.4	-0.3	2.4	0.4	-0.7*	0.8	-0.7	0.3	-0.6
STD ERR OF DP		0.6	0.4	0.5	0.3	0.2	0.2	1.2	0.2	0.8	0.7	0.3	0.3	1.4	0.6	0.3	0.8	0.4	0.6	0.6
STD ERR OF P	0.3	0.6	0.5	0.6	0.3	0.3	0.4	1.4	0.2	0.8	0.7	0.4	0.4	1.5	0.6	0.3	1.0	0.4	0.7	0.5
RESPONSE: 01* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	3.9	-2.9*	-0.1	-0.4	3.3	0.3	-0.3	-2.1*	0.6*	-3.1*	-1.3	0.1	1.5*	-1.8	-1.3	-0.4	-1.4	4.2	0.4	0.5
STD ERR OF DP		0.7	0.9	0.3	1.7	0.4	0.4	0.8	0.2	0.8	1.4	0.7	0.7	1.3	1.6	1.1	1.4	2.7	2.0	2.0
P-VALUE	3.9	1.0	3.8	3.5	7.1	4.1	3.6	1.8	4.4	0.8	2.5	3.9	5.4	2.1	2.6	3.4	2.5	8.1	4.3	4.3
STD ERR OF P	0.7	0.4	0.9	0.9	2.3	0.8	0.8	0.6	0.8	0.6	1.4	1.0	1.1	1.1	1.5	1.5	1.4	2.8	2.0	2.1
AGE: 13																				
DELTA-P	54.8	-7.5*	-11.3*	3.7	13.5*	1.1	-1.2	-25.6*	6.3*	-20.5*	-12.0*	-0.2	16.1*	-25.8*	-3.4	2.8	-6.0	2.9	3.0	22.6*
STD ERR OF DP		2.7	3.0	3.6	2.7	1.3	1.4	4.1	1.2	3.8	4.3	2.0	1.7	8.8	6.4	3.1	4.8	7.2	4.6	5.2
P-VALUE	54.8	47.3	43.5	58.4	68.3	55.9	53.6	29.1	61.1	34.3	42.8	54.5	70.8	29.0	51.4	57.6	48.8	57.7	57.7	77.4
STD ERR OF P	1.9	2.6	3.5	4.6	2.6	2.1	2.5	3.9	1.8	4.2	4.6	3.1	2.0	4.8	6.7	3.5	5.1	7.9	4.8	5.2
RESPONSE: 03 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	57.9	-6.0*	4.1	-3.0	4.7	-5.9*	6.4*	-19.8*	3.8*	-8.1	-10.6*	0.6	-1.5	-10.4	-14.1	-0.7	-7.6	-2.5	10.5*	14.6*
STD ERR OF DP		3.0	2.6	3.2	3.5	1.5	1.5	4.6	0.9	6.9	5.3	2.7	1.7	6.2	7.7	2.3	4.9	6.0	3.5	3.9
STD ERR OF P	1.8	3.2	2.9	3.9	4.1	2.5	2.3	4.8	2.1	7.7	5.0	3.2	2.5	6.2	8.3	2.9	5.4	6.2	3.4	4.0
AGE: 13																				
DELTA-P	19.9	3.0	8.4*	-2.6	-8.1*	-3.8*	4.0*	8.0*	-3.0*	13.7*	4.0	-0.5	-8.3*	15.3*	4.3	-1.0	-2.1	1.0	-3.6	-10.3*
STD ERR OF DP		2.5	2.4	2.0	1.8	1.0	1.1	2.8	0.8	4.0	3.2	1.5	1.1	4.2	4.9	1.9	2.6	4.9	2.8	3.3
STD ERR OF P	1.3	2.8	3.1	2.3	1.6	1.3	2.0	2.9	1.3	4.2	3.3	2.3	1.1	4.1	5.3	2.1	2.8	5.3	3.0	3.1

Report #: UK04

NAEP #: K20008-1

Content Area: K. GEOMETRY

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 07-17
National P-value:
UK04 66.58

Timing: (in seconds)
UK04 Exercise total: 28

EXERCISE: UK05

This unreleased exercise dealt with GEOMETRY at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	1.5	0.2	0.5	-0.3	-0.3	0.2	-0.2	2.2*	-0.7*	-0.1	0.2	-1.1*	-1.2*	2.3	1.5	-0.0	-0.7	1.6	-1.3*	-1.5*
STD ERR OF DP		0.4	0.6	0.4	0.5	0.2	0.2	1.0	0.2	0.9	1.0	0.3	0.3	1.3	1.0	0.4	0.5	1.2	0.3	0.3
STD ERR OF P	0.3	0.5	0.7	0.5	0.6	0.4	0.3	1.1	0.3	0.9	1.0	0.2	0.2	1.4	1.0	0.5	0.5	1.3	0.2	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	66.6	-12.0*	1.6	4.8*	4.3	1.0	-1.0	-25.8*	5.1*	-14.0*	-10.4*	0.3	8.9*	-27.0*	-5.3	1.8	-4.6	-0.9	4.0	14.7*
STD ERR OF DP		2.3	3.1	2.3	2.2	1.0	1.0	2.4	0.8	4.8	4.9	2.0	1.8	2.5	3.9	2.2	3.7	3.1	3.9	3.7
P-VALUE	66.6	54.6	68.2	71.4	70.9	67.6	65.6	40.7	71.7	52.6	56.1	66.8	75.5	39.6	61.3	68.4	62.0	65.7	70.6	81.3
STD ERR OF P	1.5	2.6	3.7	2.7	2.4	1.8	1.8	2.5	1.5	5.1	5.2	2.5	2.2	2.1	3.9	2.6	4.0	3.1	4.1	3.8
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	7.9	4.0*	1.6	-1.1	-3.8*	-1.3*	1.3*	7.7*	-1.7*	7.1*	4.4	-1.9*	-4.8*	5.3	0.6	0.3	1.4	-1.0	0.1	-4.6*
STD ERR OF DP		1.4	1.7	1.2	0.9	0.6	0.6	1.7	0.5	3.1	4.2	0.9	0.9	2.8	1.3	1.1	1.9	2.1	2.0	1.2
STD ERR OF P	0.8	1.6	2.1	1.4	0.6	0.8	1.1	1.9	0.7	3.4	4.4	1.1	0.7	2.8	1.3	1.4	2.0	2.2	2.3	1.2

Report #: UK05

NAEP #: K20014-1

Content Area: K. GEOMETRY

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age:		9
Package-Exercise:		01-29
National P-value:		
	UK05	31.80

Timing: (in seconds)
UK05 Exercise total: 46

EXERCISE: UK05

This unreleased exercise dealt with GEOMETRY at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	0.9	-0.8	1.5	-0.6	-0.2	0.3	-0.3	0.5	-0.5	0.2	-0.9	-0.2	-0.3	8.9	-0.9	-0.7	-0.8	0.0	-0.9	-0.5
STD ERR OF DP		0.6	1.6	0.5	0.6	0.2	0.2	0.8	0.3	0.6	0.6	0.4	0.2	7.3	0.6	0.6	0.6	0.8	0.6	0.6
STD ERR OF P	0.5	0.1	2.1	0.3	0.4	0.7	0.4	0.6	0.2	1.1	0.9	0.3	0.4	7.8	0.0	0.2	0.1	0.8	0.0	0.4
RESPONSE: 02* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	31.8	-6.9#	1.5	4.9*	-0.5	-0.6	0.6	-15.8#	3.5#	-8.1*	-7.7*	-3.9*	6.4#	-15.1#	-8.8#	1.1	-1.6	2.7	2.2	8.2#
STD ERR OF DP		1.9	2.4	2.3	1.8	1.1	1.1	2.5	0.6	3.5	3.9	1.6	1.9	3.5	2.8	1.8	3.4	3.8	3.9	2.8
P-VALUE	31.8	24.9	33.3	36.7	31.3	31.2	32.4	16.0	35.3	23.9	24.1	28.0	38.2	16.7	23.0	32.9	30.2	34.5	34.0	40.0
STD ERR OF P	1.3	1.9	2.9	2.9	1.8	1.8	1.6	2.6	1.5	3.7	3.9	1.9	2.6	3.6	2.7	2.1	3.5	4.2	4.3	3.0
RESPONSE: 09 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	7.9	0.8	-0.8	0.1	0.0	-1.4*	1.4*	1.8	-0.8#	2.5	-2.6	-3.2#	-2.4#	2.4	1.8	0.9	-1.1	-1.5	-0.1	-1.6
STD ERR OF DP		1.4	1.0	1.2	1.1	0.6	0.6	1.6	0.3	3.0	1.9	1.0	0.9	2.5	1.6	1.1	1.6	1.8	1.3	1.2
STD ERR OF P	0.7	1.6	1.0	1.5	1.3	0.7	1.0	1.7	0.7	3.3	1.9	0.9	1.9	2.8	1.6	1.4	1.7	1.9	1.8	1.3

Report #: UK06

NAEP #: K20037-1234

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple part multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		01-12	07-09	08-11	06-25
National P-value:					
	UK06A	48.75	81.70	92.40	86.24
	UK06B	20.92	65.62	82.24	80.57
	UK06C	28.69	69.37	83.75	73.33

Timing: (in seconds)					
UK06A	Part total:	30	31	31	*
UK06B	Part total:	26	25	26	*
UK06C	Part total:	27	26	27	*
UK06	Exercise total:	83	82	84	*

*Time not limited by paced tape.

EXERCISE: UK06

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part A.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.4	-0.2	0.5	-0.1	-0.2	0.2	-0.2	1.5	-0.3	1.5	-0.4	0.3	-0.2	3.2	-0.1	-0.1	-0.4	-0.4	-0.4	-0.4
STD ERR OF DP		0.2	0.5	0.2	0.2	0.1	0.1	1.1	0.2	0.9	0.2	0.5	0.2	2.4	0.4	0.2	0.2	0.2	0.2	0.2
STD ERR OF P	0.2	0.1	0.7	0.2	0.2	0.3	0.1	1.3	0.1	1.1	0.0	0.6	0.1	2.6	0.3	0.2	0.0	0.0	0.0	0.0
AGE: 13																				
DELTA-P	0.1	0.0	-0.1	0.0	0.0	0.1	-0.1	0.3	-0.0	-0.1	-0.1	0.1	-0.1	0.4	-0.1	0.0	-0.1	-0.1	0.2	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.2	0.1
STD ERR OF P	0.1	0.2	0.0	0.1	0.1	0.1	0.0	0.3	0.1	0.0	0.0	0.1	0.0	0.5	0.0	0.1	0.0	0.0	0.3	0.0
AGE: 17																				
DELTA-P	0.1	-0.1	-0.2	0.0	0.2	0.0	-0.0	-0.0	0.0	-0.2	-0.2	-0.2	-0.1	-0.0	-0.2	0.1	-0.2	-0.2	-0.2	0.4
STD ERR OF DP		0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
STD ERR OF P	0.1	0.1	0.0	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.4
AGE: Ad																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	0.1	-0.0	0.4	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.4	-0.0
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
STD ERR OF P	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
RESPONSE: 04* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	48.8	-7.1*	4.2	0.4	1.7	2.0	-2.0	-14.1*	3.2*	-12.0*	-1.6	-1.5	7.9*	-8.7	-11.6*	0.8	0.6	-5.1	1.3	12.7*
STD ERR OF DP		2.6	2.4	2.6	2.7	1.1	1.1	3.2	0.7	4.3	5.0	2.1	2.0	5.0	5.7	1.8	4.0	3.5	3.2	3.5
P-VALUE	48.8	41.6	53.0	49.1	50.5	50.8	46.7	34.6	51.9	36.8	47.1	47.3	56.7	40.1	37.2	49.5	49.3	43.6	50.1	61.5
STD ERR OF P	1.5	2.9	2.6	3.0	3.3	1.9	1.8	3.2	1.8	4.7	5.0	2.5	2.5	5.0	6.1	2.4	4.4	3.4	3.4	3.6
AGE: 13																				
DELTA-P	81.7	-8.4*	2.0	3.5	1.9	-0.1	0.1	-24.1*	5.0*	-16.8*	-9.0*	1.4	9.3*	-18.4*	1.9	-4.5*	3.0	-0.1	2.4	14.6*
STD ERR OF DP		2.0	1.7	2.1	2.7	0.8	0.8	2.8	0.9	4.1	2.9	1.4	1.0	6.2	3.0	2.1	2.4	3.0	2.9	2.1
P-VALUE	81.7	73.3	83.7	85.2	83.6	81.6	81.8	57.6	86.7	64.9	72.7	83.1	91.0	63.3	83.6	77.2	84.7	81.7	84.1	96.3
STD ERR OF P	1.3	2.0	1.7	2.5	3.3	1.5	1.6	3.4	1.0	4.4	3.2	2.1	1.0	6.6	3.2	2.5	2.4	3.2	3.0	1.5
AGE: 17																				
DELTA-P	92.4	-4.0	0.4	0.8	2.3*	0.3	-0.3	-19.5*	3.7*	-9.8*	-11.4*	1.9*	5.8*	-13.3*	-1.1	0.9	-1.0	1.5	3.7*	5.5*
STD ERR OF DP		2.3	1.1	1.0	1.1	0.6	0.6	2.4	0.6	2.1	2.4	0.8	0.8	3.0	2.6	0.9	1.9	1.5	1.4	1.0
P-VALUE	92.4	88.4	92.8	93.2	94.7	92.7	92.1	72.9	96.1	82.6	81.0	94.3	98.2	79.2	91.3	93.3	91.4	93.9	96.1	97.9
STD ERR OF P	0.8	2.8	1.2	0.9	1.1	1.0	1.0	2.9	0.5	2.4	2.8	1.0	0.4	3.1	2.7	1.2	2.4	1.2	1.3	0.7
AGE: Ad																				
DELTA-P	86.2	-9.5*	1.8	6.0*	-0.7	1.1	-1.0	-28.1*	4.4*	-10.6*	-7.0*	4.8*	10.9*	-21.1*	-5.2	1.0	1.8	6.4*	0.5	8.4*
STD ERR OF DP		2.5	1.6	1.4	1.9	1.0	0.9	3.6	0.7	1.9	2.5	1.5	1.2	4.3	4.1	1.3	3.1	1.9	3.0	1.8
P-VALUE	86.2	76.7	88.0	92.2	85.6	87.4	85.2	58.1	90.7	75.6	79.2	91.0	97.1	65.1	81.1	87.2	88.0	92.7	86.7	94.6
STD ERR OF P	1.0	2.9	1.8	1.3	2.3	1.3	1.4	3.8	0.9	2.5	2.9	1.7	0.9	4.7	4.3	1.6	3.2	1.9	3.1	1.8
RESPONSE: DK AGE: 9 TEXT: I Don't Know.																				
DELTA-P	20.8	0.5	-1.5	0.7	0.3	-3.9*	4.0*	0.9	-0.9	6.5	-5.2	-1.0	-7.8*	3.6	4.6	-0.3	-3.3	3.4	0.6	-4.0
STD ERR OF DP		1.7	1.8	1.3	1.8	1.0	1.0	2.5	0.6	3.8	3.9	1.9	1.4	2.9	2.9	1.2	1.9	3.1	2.3	2.7
STD ERR OF P	0.9	1.9	2.2	1.3	2.2	1.2	1.6	2.6	1.1	4.0	3.8	2.0	1.5	3.1	3.2	1.4	1.9	3.3	2.2	3.0
AGE: 13																				
DELTA-P	4.6	2.5*	-0.8	-0.1	-1.4	-0.3	0.3	8.2*	-1.7*	6.0*	0.2	-0.5	-2.4*	6.1*	-1.8	0.9	-0.4	-0.4	-0.8	-2.7*
STD ERR OF DP		1.1	0.8	1.0	0.9	0.5	0.5	1.9	0.4	2.4	1.2	0.8	0.5	1.8	1.1	0.9	1.4	1.4	1.6	1.3
STD ERR OF P	0.6	1.3	0.8	1.3	1.1	0.6	0.8	2.1	0.5	2.6	1.2	1.0	0.5	2.0	1.0	1.1	1.6	1.5	1.6	1.2
AGE: 17																				
DELTA-P	1.7	0.6	-0.2	-0.0	-0.3	-0.4	0.3	2.2*	-0.6*	4.0*	1.6	-0.7	-0.8*	2.3	-0.6	0.0	0.1	-0.6	0.8	-1.7*
STD ERR OF DP		0.6	0.5	0.5	0.6	0.3	0.3	1.1	0.2	1.4	0.9	0.4	0.3	1.4	0.7	0.4	0.6	0.6	1.0	0.3
STD ERR OF P	0.3	0.6	0.5	0.5	0.7	0.3	0.5	1.2	0.3	1.5	1.1	0.4	0.3	1.5	0.6	0.5	0.7	0.6	1.1	0.0

EXERCISE: UK06

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part A.

RESPONSE: 09 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	7.3	4.1#	-0.7	-4.4#	2.2	-1.4	1.3	13.7#	-2.6#	6.2#	3.0	-2.8*	-5.9#	13.2#	1.1	-0.8	-1.0	-4.1*	-0.1	-3.9*
STD ERR OF DP		1.6	1.3	1.0	1.5	0.9	0.8	2.6	0.6	1.5	2.4	1.3	0.8	4.2	3.0	1.0	1.9	1.7	3.0	1.7
STD ERR OF P	0.7	1.8	1.5	0.9	1.9	1.1	1.2	2.8	0.7	1.8	2.7	1.3	0.6	4.5	3.1	1.1	2.0	1.7	3.2	1.8

EXERCISE: UK06

Part B.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.5	0.7	0.4	-0.1	-0.9*	0.7*	-0.7*	3.5#	-0.8#	0.1	2.3	0.3	-0.3	5.1*	0.3	0.4	-0.8	-0.2	-1.5#	-1.1#
STD ERR OF DP		0.5	0.8	0.4	0.4	0.3	0.3	1.2	0.3	0.9	2.8	0.7	0.3	2.5	0.7	0.4	0.6	0.6	0.3	0.4
STD ERR OF P	0.3	0.6	1.1	0.3	0.3	0.6	0.3	1.4	0.3	0.9	2.8	0.9	0.4	2.7	0.7	0.5	0.6	0.7	0.0	0.4
AGE: 13																				
DELTA-P	0.2	0.2	-0.2	0.1	-0.1	0.1	-0.1	0.4	-0.1	-0.2*	-0.2*	0.3	-0.2	0.3	0.5	0.1	-0.2*	-0.2*	-0.1	-0.2*
STD ERR OF DP		0.2	0.1	0.2	0.1	0.1	0.1	0.3	0.0	0.1	0.1	0.2	0.1	0.3	0.6	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.1	0.3	0.1	0.2	0.1	0.3	0.1	0.0	0.0	0.3	0.1	0.4	0.6	0.2	0.0	0.0	0.1	0.0
AGE: 17																				
DELTA-P	0.2	-0.2	-0.2*	-0.1	0.4	0.1	-0.1	-0.1	0.0	-0.2*	-0.2*	-0.2*	0.0	-0.1	-0.2*	-0.1	-0.2*	-0.2*	-0.2*	1.0
STD ERR OF DP		0.1	0.1	0.2	0.3	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.6
STD ERR OF P	0.1	0.1	0.0	0.2	0.4	0.2	0.1	0.1	0.2	0.0	0.0	0.0	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.7
AGE: Ad																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	0.1	-0.0	0.4	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.4	-0.0
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
STD ERR OF P	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0

RESPONSE: 02* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	20.9	-5.2#	0.9	0.2	3.5	2.6#	-2.6#	-9.1#	1.6#	-3.5	-9.4#	1.8	5.8#	-10.0#	-8.6#	-0.9	3.4	-2.3	3.0	8.1#
STD ERR OF DP		1.7	1.8	1.9	2.1	0.9	0.9	2.0	0.5	2.7	3.2	1.8	1.9	3.2	2.3	1.7	3.4	3.2	3.8	2.2
P-VALUE	20.9	15.8	21.8	21.1	24.4	23.5	18.3	11.8	22.5	17.4	11.5	22.7	26.7	11.0	12.3	20.0	24.3	18.6	23.9	29.0
STD ERR OF P	1.1	1.7	2.1	2.2	2.6	1.5	1.4	1.9	1.3	3.0	3.1	2.1	2.3	3.2	2.3	2.0	3.8	3.2	4.0	2.1
AGE: 13																				
DELTA-P	65.6	-13.1#	2.0	6.2*	3.1	1.9	-1.9	-33.7#	6.7#	-15.0#	-14.7#	0.6	11.0#	-32.5#	6.4	-4.2	2.9	-2.1	1.8	20.9#
STD ERR OF DP		3.0	2.7	3.0	3.2	1.0	1.0	3.0	1.0	3.9	4.1	1.3	1.3	5.7	5.0	2.9	3.3	3.8	3.6	3.2
P-VALUE	65.6	52.5	67.6	71.8	68.7	67.5	63.7	31.9	72.4	50.6	50.9	66.2	76.6	33.1	72.1	61.5	68.6	63.5	67.4	86.6
STD ERR OF P	1.7	3.2	2.8	3.8	3.8	[illegible]	2.2	3.1	1.6	4.5	4.1	2.4	1.8	6.0	5.4	3.3	3.6	3.7	3.8	3.0
AGE: 17																				
DELTA-P	82.2	-7.5	1.0	3.6	1.6	2.7#	-2.5#	-33.6#	6.5#	-21.1#	-22.3#	1.2	12.2#	-22.1#	-0.5	2.0	2.2	-2.3	2.2	9.1#
STD ERR OF DP		3.9	1.9	1.8	1.8	1.0	0.9	2.8	0.9	3.2	3.0	1.4	1.2	5.8	3.9	1.6	3.0	4.5	2.9	2.1
P-VALUE	82.2	74.7	83.3	85.8	83.9	85.0	79.8	48.6	88.7	61.1	59.9	83.4	94.4	60.2	81.7	84.3	84.4	80.0	84.4	91.3
STD ERR OF P	1.3	4.9	1.9	1.8	1.7	1.5	1.7	3.4	1.0	3.7	3.6	1.9	0.9	6.0	4.0	2.1	3.7	4.6	3.0	1.9
AGE: Ad																				
DELTA-P	80.6	-10.0#	4.6	5.3*	-2.4	1.2	-1.1	-39.5#	5.9#	-15.3#	-5.8*	7.8#	14.5#	-17.8#	-4.2	2.6	-0.3	-12.0*	3.1	12.3#
STD ERR OF DP		2.7	2.3	2.3	2.8	1.1	1.0	4.2	0.8	2.0	2.7	1.8	1.6	4.4	5.7	1.8	3.9	5.9	3.3	2.1
P-VALUE	80.6	70.6	85.1	85.9	78.2	81.7	79.5	41.1	86.5	65.2	74.8	88.4	95.1	62.8	76.4	83.2	80.3	68.6	83.7	92.9
STD ERR OF P	1.5	2.9	2.6	2.8	3.4	2.0	1.7	4.5	1.3	2.8	3.2	1.8	1.2	4.6	5.8	2.0	4.3	6.6	3.6	2.0

RESPONSE: 09 AGE: 9 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	17.5	-1.3	0.3	0.7	0.2	-4.8#	4.8#	-0.5	-0.3	-3.7	0.2	-6.1#	-4.6#	1.3	4.3	-1.8	-1.3	3.9	-2.1	0.8
STD ERR OF DP		1.6	1.3	1.7	2.1	0.8	0.8	2.2	0.5	3.2	4.1	1.3	1.3	3.0	3.3	1.5	1.7	3.1	1.9	2.5
STD ERR OF P	1.0	1.7	1.2	1.9	2.7	0.9	1.6	2.3	1.0	3.1	4.2	1.6	1.4	3.0	3.4	1.9	1.7	3.4	2.0	2.8

EXERCISE: UK06

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part B.

RESPONSE: 09 AGE: 13 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	5.4	2.1*	0.3	-0.7	-1.4	-1.8#	1.8#	4.4#	-1.0#	0.5	2.0	-0.5	-1.4*	4.0	-1.8	1.3	-1.7	0.6	-0.7	-1.5
STD ERR OF DP		0.9	0.9	0.8	0.9	0.5	0.5	1.4	0.3	1.6	1.7	0.8	0.7	2.5	1.0	1.0	1.3	1.5	1.2	1.1
STD ERR OF P	0.5	1.1	1.1	1.0	1.1	0.5	0.9	1.6	0.5	1.8	1.9	0.9	0.7	2.6	1.0	1.2	1.4	1.5	1.2	1.1
AGE: 17																				
DELTA-P	2.6	0.3	-0.3	-0.7	0.9	-0.7	0.6	2.5	-0.7#	3.4	5.6#	-1.1*	-1.5#	6.3*	0.2	-1.2*	0.2	-1.2	0.2	-1.3*
STD ERR OF DP		0.8	0.6	0.6	1.0	0.4	0.4	1.3	0.3	2.0	2.2	0.5	0.5	2.6	1.0	0.5	1.0	0.9	1.1	0.5
STD ERR OF P	0.4	0.9	0.5	0.6	1.3	0.6	0.5	1.5	0.4	2.1	2.5	0.5	0.3	2.9	1.0	0.5	1.1	0.9	1.1	0.4
AGE: Ad																				
DELTA-P	5.7	4.8#	-2.0	-3.2#	1.6	-0.8	0.8	7.0#	-1.2#	5.4#	2.2	-2.9#	-4.7#	3.8	4.6	-0.5	0.0	-2.7	1.1	-2.7
STD ERR OF DP		1.4	1.1	0.8	1.4	0.7	0.7	2.4	0.3	1.3	1.8	0.9	0.7	2.1	3.1	0.9	1.5	1.9	2.9	1.6
STD ERR OF P	0.7	1.5	1.3	0.8	1.8	1.0	1.0	2.5	0.7	1.7	2.1	0.7	0.5	2.3	3.3	0.9	1.5	2.1	3.1	1.7

EXERCISE: UK06

Part C.

RESPONSE: 00 AGE: 9 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.4	-0.2	0.4	-0.2	0.0	0.1	-0.1	0.9	-0.1	-0.4*	-0.4*	0.2	0.1	1.5	-0.1	0.1	-0.3	-0.4*	-0.4*	0.2
STD ERR OF DP		0.2	0.4	0.2	0.3	0.1	0.1	0.8	0.1	0.2	0.2	0.5	0.3	1.7	0.3	0.2	0.2	0.2	0.2	0.5
STD ERR OF P	0.2	0.1	0.5	0.2	0.3	0.3	0.1	1.0	0.1	0.0	0.0	0.6	0.3	1.9	0.3	0.3	0.1	0.0	0.0	0.6
AGE: 13																				
DELTA-P	0.0	0.0	0.1	-0.1	-0.1	-0.1	0.0	-0.1	-0.0	-0.1	-0.1	-0.1	-0.0	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.2	0.1	-0.2	-0.0	0.1	0.1	-0.1	0.3	-0.0	-0.2	-0.2	-0.0	-0.2	0.6	-0.2	-0.0	-0.2	-0.2	-0.2	0.3
STD ERR OF DP		0.3	0.1	0.2	0.2	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.7	0.1	0.1	0.1	0.1	0.1	0.4
STD ERR OF P	0.1	0.4	0.0	0.2	0.2	0.2	0.1	0.5	0.1	0.0	0.0	0.2	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.4
AGE: Ad																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	0.1	-0.0	0.4	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.4	-0.0
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
STD ERR OF P	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0

RESPONSE: 05* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	28.7	-5.7#	-1.7	-0.6	7.4#	3.4#	-3.4#	-11.4#	2.0#	-5.0	-10.9#	-1.9	8.6#	-12.3#	-4.7	-2.9	4.9	-3.6	-0.5	14.5#
STD ERR OF DP		1.9	2.3	2.2	2.2	1.1	1.1	1.9	0.5	3.5	3.5	2.0	2.1	2.8	3.3	1.9	3.8	2.2	4.1	3.5
P-VALUE	28.7	23.0	27.0	28.1	36.1	32.1	25.3	17.3	30.7	23.7	17.8	26.8	37.3	16.4	24.0	25.8	33.6	25.1	28.2	43.1
STD ERR OF P	1.3	1.9	2.7	2.5	2.6	1.6	1.7	1.8	1.5	3.6	3.6	2.5	2.6	2.7	3.4	2.2	4.0	1.9	4.5	3.8
AGE: 13																				
DELTA-P	69.4	-15.3#	-1.7	8.5#	6.1*	1.7	-1.7	-37.1#	7.7#	-22.0#	-16.1#	2.1	11.4#	-34.9#	6.7	-4.0	2.8	-2.6	3.5	20.2#
STD ERR OF DP		3.5	2.5	2.9	3.0	1.0	1.0	3.5	1.0	4.6	3.4	1.6	1.3	5.9	4.5	3.3	3.4	4.4	4.8	2.8
P-VALUE	69.4	54.0	67.7	77.8	75.5	71.1	67.7	32.3	77.0	47.3	53.3	71.5	80.8	34.5	76.1	65.4	72.2	66.0	72.9	89.5
STD ERR OF P	1.8	4.1	2.4	3.6	3.5	2.0	2.1	3.6	1.6	5.1	4.0	2.4	1.7	6.1	4.9	4.1	3.5	4.1	5.0	2.1
AGE: 17																				
DELTA-P	83.8	-10.4#	1.5	2.4	5.0#	1.3	-1.2	-34.6#	6.2#	-22.7#	-19.3#	0.8	11.2#	-22.7#	-1.2	0.9	-0.2	3.1	3.0	11.4#
STD ERR OF DP		3.9	1.6	1.8	1.8	1.0	0.9	3.2	1.0	3.2	2.6	1.3	1.2	6.0	3.6	1.6	3.5	4.0	2.4	1.6
P-VALUE	83.8	73.3	85.3	86.2	88.7	85.0	82.6	49.1	89.9	61.1	64.5	84.6	94.9	61.0	82.6	84.6	83.6	86.9	86.7	95.2
STD ERR OF P	1.3	4.9	1.2	1.9	1.8	1.8	1.5	4.0	0.9	3.8	3.2	1.8	0.9	6.2	3.6	1.9	4.2	4.1	2.4	1.2

EXERCISE: UK06

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part C.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 05* AGE: Ad TEXT: All Acceptable Responses.																				
DELTA-P	73.3	-10.2*	3.9	3.2	0.8	2.3	-2.2	-37.9*	6.0*	-17.3*	-8.2*	6.7*	18.8*	-19.8*	-2.8	0.7	-0.6	-5.4	5.0	12.7*
STD ERR OF DP		3.3	2.6	2.6	2.9	1.2	1.1	4.3	0.8	1.9	2.9	1.8	1.9	5.0	5.4	1.8	4.9	5.4	2.7	3.4
P-VALUE	73.3	63.2	77.2	76.5	74.1	75.6	71.2	35.4	79.3	56.1	65.1	80.0	92.1	53.6	70.5	74.0	72.8	67.9	78.3	86.0
STD ERR OF P	1.6	3.6	2.9	3.1	3.4	2.1	1.9	4.6	1.5	2.5	3.6	2.1	1.4	5.3	5.4	2.4	5.6	5.8	2.5	3.4
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	19.8	-3.5	2.3	2.0	-1.2	-4.4*	4.5*	-2.9	0.1	3.1	-5.7	-2.0	-6.4*	-3.0	2.9	0.5	-1.7	2.3	1.5	-3.2
STD ERR OF DP		1.8	1.6	1.8	1.8	1.1	1.1	2.6	0.7	3.6	3.2	1.9	[illegible]	2.9	2.9	1.6	2.3	2.3	2.8	2.4
STD ERR OF P	1.0	2.0	1.7	2.2	2.1	1.0	1.8	2.8	1.3	3.8	3.3	1.9	1.3	3.0	2.8	1.9	2.5	2.5	3.0	2.7
AGE: 13																				
DELTA-P	6.9	1.7	-0.7	0.4	-1.2	-1.2	1.2	7.9*	-1.4*	5.0	2.4	-0.7	-2.7*	6.5*	-3.3*	-0.3	-0.1	-1.8	3.0	-2.3
STD ERR OF DP		1.0	0.9	1.3	1.2	0.7	0.6	1.8	0.4	2.5	2.1	1.0	0.6	1.8	1.3	0.9	1.2	1.4	2.7	1.2
STD ERR OF P	0.7	1.1	0.9	1.6	1.4	0.7	1.1	2.1	0.6	2.5	2.5	1.1	0.8	1.8	1.4	1.1	1.2	1.3	3.1	1.1
AGE: 17																				
DELTA-P	3.6	2.1	-0.5	0.2	-1.6*	-0.6	0.5	6.0*	-1.0*	4.1*	6.7*	-1.1	-2.2*	3.3	-0.4	0.6	-0.1	-2.5*	0.3	-2.4*
STD ERR OF DP		1.2	0.7	0.8	0.7	0.5	0.4	1.6	0.3	1.8	2.1	0.6	0.5	1.7	1.1	0.7	0.8	[illegible]	1.1	0.7
STD ERR OF P	0.5	1.4	0.6	1.0	0.7	0.6	0.7	1.8	0.5	1.9	2.4	0.7	0.3	1.9	1.1	1.0	0.8	[illegible]	1.2	0.6
AGE: Ad																				
DELTA-P	8.2	5.9*	-2.0	-2.0	-0.5	-0.8	0.8	11.1*	-1.9*	6.9*	0.6	-2.7*	-5.3*	9.7*	2.2	-1.2	1.8	-2.7	-1.2	-3.1
STD ERR OF DP		1.9	1.2	1.1	1.4	0.8	0.7	2.9	0.4	1.5	1.4	1.0	1.0	2.8	3.1	1.0	3.1	2.6	1.5	2.0
STD ERR OF P	0.8	2.2	1.3	1.2	1.6	1.0	1.1	3.2	0.7	2.0	1.7	1.0	0.8	3.0	3.2	1.1	3.3	2.7	1.5	2.1

Report #: UK07

NAEP #: K20040-123

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13	17
Package-Exercise:		05-15	05-22	03-18
National P-value:				
	UK07	6.22	20.72	43.17

Timing: (in seconds)

UK07	Exercise total:	46	37	36

EXERCISE: UK07

This unreleased exercise dealt with GEOMETRY at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.4	0.5	-0.0	-0.3	-0.2	0.2	-0.2	0.3	-0.0	0.1	0.4	-0.1	-0.0	0.4	1.0	-0.0	-0.2	0.1	-0.4#	-0.4#
STD ERR OF DP		0.4	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.6	0.8	0.3	0.2	0.5	0.8	0.2	0.2	0.4	0.2	0.2
STD ERR OF P	0.2	0.5	0.2	0.1	0.2	0.3	0.1	0.4	0.2	0.6	0.8	0.3	0.3	0.5	0.9	0.3	0.2	0.4	0.0	0.0
AGE: 13																				
DELTA-P	0.5	-0.4	0.3	0.0	-0.0	0.2	-0.2	-0.2	0.1	-0.5#	-0.5#	-0.2	-0.1	-0.1	-0.1	-0.5#	-0.4*	0.7	0.4	0.7
STD ERR OF DP		0.2	0.4	0.3	0.3	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.2	0.9	0.5	0.6
STD ERR OF P	0.2	0.2	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.0	0.1	0.2	0.3	0.3	0.3	0.0	0.1	1.0	0.6	0.6
AGE: 17																				
DELTA-P	0.4	-0.4*	0.2	0.0	0.2	0.1	-0.1	0.3	-0.1	-0.2	0.3	0.0	-0.3*	0.6	-0.3	-0.2	-0.3	0.6	0.5	-0.4#
STD ERR OF DP		0.2	0.3	0.2	0.2	0.1	0.1	0.5	0.1	0.2	0.5	0.2	0.1	0.7	0.2	0.1	0.2	0.6	0.4	0.1
STD ERR OF P	0.1	0.1	0.4	0.3	0.3	0.2	0.2	0.6	0.1	0.2	0.5	0.3	0.1	0.7	0.1	0.1	0.2	0.7	0.5	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	6.2	-1.9	0.2	2.1	-0.5	0.9	-0.9	-2.9#	0.8#	-2.5	-3.1	1.5	1.2	-4.5#	0.6	-0.6	1.4	-1.3	1.9	2.6
STD ERR OF DP		1.1	1.1	1.3	1.2	0.7	0.7	1.1	0.3	1.8	1.8	1.4	0.9	0.9	2.1	1.0	2.2	1.1	2.1	2.0
P-VALUE	6.2	4.3	6.4	8.3	5.7	7.1	5.4	3.4	7.1	3.8	3.2	7.7	7.4	1.8	6.8	5.6	7.7	5.0	8.1	8.8
STD ERR OF P	0.7	1.1	1.2	1.5	1.5	0.9	1.0	1.1	0.8	1.7	1.9	1.6	1.2	0.7	2.1	1.3	2.5	0.9	2.2	2.1
AGE: 13																				
DELTA-P	20.7	-6.1#	1.7	3.3	-0.5	6.6#	-6.6#	-14.6#	2.6#	-5.8	-7.5#	-1.5	5.5#	-10.9#	2.2	1.6	-2.0	-6.7*	0.8	9.2#
STD ERR OF DP		1.6	1.9	1.8	2.0	0.9	0.9	1.4	0.4	3.0	2.5	1.3	1.2	2.2	1.8	1.7	2.5	3.0	2.6	3.6
P-VALUE	20.7	14.6	22.4	24.0	20.2	27.3	14.1	6.1	23.3	14.9	13.2	19.3	26.2	9.8	22.9	22.3	18.7	14.0	21.6	29.9
STD ERR OF P	1.1	1.6	2.2	2.3	2.3	1.7	1.0	1.1	1.2	3.1	2.6	1.4	1.8	2.1	2.7	2.0	2.8	3.1	2.8	4.0
AGE: 17																				
DELTA-P	43.2	-9.0#	-1.9	4.4	4.1	8.4#	-8.3#	-22.8#	3.9#	-7.3*	-12.2#	1.9	5.7#	-20.3#	-7.3	1.2	2.0	-5.5	5.2	12.2#
STD ERR OF DP		2.3	2.4	2.6	2.4	1.1	1.1	2.8	0.7	3.5	3.2	1.8	1.3	3.9	3.7	2.0	3.2	4.5	4.0	2.9
P-VALUE	43.2	34.1	41.3	47.6	47.2	51.6	34.9	20.3	47.1	35.9	30.9	45.0	48.9	22.8	35.9	44.3	45.2	37.7	48.3	55.4
STD ERR OF P	1.5	2.5	2.6	3.4	2.7	1.8	1.9	3.0	1.5	3.7	3.4	2.1	2.1	4.0	3.8	2.3	3.4	4.5	4.4	3.0
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	3.5	-1.1*	-0.1	0.8	0.5	0.4	-0.4	-1.1	0.1	-1.2	-0.8	-0.9	0.1	0.3	-1.0	-0.0	-0.6	1.0	1.6	-1.3
STD ERR OF DP		0.5	0.6	0.8	0.9	0.4	0.4	0.8	0.2	1.9	1.7	0.6	0.6	1.4	0.9	0.6	0.8	0.8	1.6	0.7
STD ERR OF P	0.4	0.3	0.7	1.0	1.1	0.6	0.5	0.8	0.5	1.8	1.6	0.6	0.8	1.4	0.9	0.8	0.7	0.8	1.8	0.8
AGE: 13																				
DELTA-P	1.9	-0.6	0.6	0.5	-0.7	-0.1	0.1	0.1	-0.1	-0.9	0.3	-0.7*	-0.0	0.2	-0.3	0.0	0.4	-0.2	0.6	-0.9
STD ERR OF DP		0.4	0.6	0.4	0.4	0.3	0.3	0.8	0.2	1.0	1.1	0.3	0.3	1.0	0.7	0.4	0.8	1.0	0.9	0.6
STD ERR OF P	0.3	0.3	0.8	0.5	0.4	0.4	0.4	0.8	0.3	1.0	1.1	0.4	0.4	1.1	0.7	0.5	0.8	1.0	1.0	0.6
AGE: 17																				
DELTA-P	1.9	0.4	-0.2	-0.6	0.5	-0.2	0.2	1.5	-0.1	1.0	-0.9	0.1	-0.5	1.0	-0.6	1.0	-0.3	0.9	-1.2#	-1.6#
STD ERR OF DP		0.8	0.6	0.5	0.9	0.4	0.4	1.2	0.2	1.7	0.6	0.5	0.4	1.1	1.0	0.6	0.8	1.6	0.5	0.5
STD ERR OF P	0.4	0.9	0.5	0.4	1.2	0.7	0.5	1.3	0.5	1.9	0.5	0.5	0.4	1.1	1.0	0.9	0.8	1.7	0.3	0.3

Report #: UK08

NAEP #: K20047-1234

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		9	13	17	Adult
Package-Exercise:		09-08	12-10	13-09	04-08
National P-value:					
	UK08	25.01	46.78	61.34	49.98

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UK08

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.5	0.7	-0.2	-0.5#	0.1	0.1	-0.1	0.1	-0.1	-0.5#	-0.5#	0.1	-0.3	0.5	-0.1	0.3	-0.2	-0.5#	-0.5#	0.1
STD ERR OF DP		0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.1	0.2	0.2	0.3	0.2	0.7	0.4	0.3	0.3	0.2	0.2	0.6
STD ERR OF P	0.2	0.5	0.2	0.0	0.3	0.3	0.2	0.4	0.2	0.0	0.0	0.4	0.2	0.7	0.4	0.4	0.3	0.0	0.0	0.6
AGE: 13																				
DELTA-P	0.4	0.2	-0.4#	-0.0	0.2	0.0	-0.0	0.5	-0.1	-0.4#	-0.3	-0.3*	0.2	-0.2	-0.4#	0.4	0.1	-0.4#	-0.4#	0.1
STD ERR OF DP		0.3	0.1	0.3	0.3	0.1	0.1	0.5	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.1	0.1	0.4
STD ERR OF P	0.1	0.3	0.0	0.3	0.3	0.2	0.2	0.5	0.2	0.0	0.1	0.1	0.3	0.2	0.0	0.4	0.3	0.0	0.0	0.5
AGE: 17																				
DELTA-P	0.1	-0.1	0.1	-0.1	0.0	-0.0	0.0	-0.1	-0.0	0.5	-0.1	-0.0	-0.1	-0.1	0.4	-0.0	0.0	-0.1	-0.1	-0.1
STD ERR OF DP		0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.1	0.1	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.1	0.1	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.2	-0.2	0.3	-0.2	0.1	0.0	-0.0	-0.2	-0.0	-0.1	-0.1	0.0	0.2	-0.2	-0.2	0.0	0.3	-0.2	-0.2	0.3
STD ERR OF DP		0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.5	0.1	0.1	0.5
STD ERR OF P	0.1	0.0	0.4	0.0	0.3	0.2	0.1	0.0	0.1	0.1	0.1	0.2	0.3	0.0	0.0	0.2	0.5	0.0	0.0	0.5
RESPONSE: 05* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	25.0	-7.6#	4.6	5.0*	-2.4	3.1#	-3.3#	-9.2#	2.0#	-9.7#	-12.0#	0.2	3.2*	-6.6	0.9	-2.2	-4.9*	1.3	7.1*	6.9*
STD ERR OF DP		2.3	3.2	2.1	1.9	1.0	1.1	2.5	0.6	3.7	3.1	2.0	1.4	3.4	4.4	1.7	2.5	2.7	3.2	3.4
P-VALUE	25.0	17.4	29.6	30.0	22.6	28.1	21.7	15.8	27.1	15.4	13.0	25.2	28.2	18.5	25.9	22.8	20.1	26.3	32.1	31.9
STD ERR OF P	1.4	2.5	3.9	2.5	1.8	1.7	1.7	2.3	1.6	3.5	2.8	2.7	1.8	3.6	4.7	2.4	2.5	2.6	3.3	3.7
AGE: 13																				
DELTA-P	46.8	-11.3#	5.1*	3.4	1.6	5.7#	-5.6#	-19.8#	3.8#	-18.3#	-8.7*	-1.5	8.7#	-11.3*	-6.4*	-1.7	0.1	4.2	5.4	5.9
STD ERR OF DP		2.8	2.4	2.2	2.7	1.2	1.2	3.0	0.6	5.5	3.7	1.8	1.4	4.8	2.8	1.8	3.5	4.7	4.2	4.6
P-VALUE	46.8	35.5	51.8	50.2	48.3	52.5	41.2	27.0	50.6	28.5	38.1	45.2	55.4	35.5	40.4	45.0	46.9	51.0	52.2	52.7
STD ERR OF P	1.5	3.2	2.6	2.5	3.2	2.1	1.7	3.1	1.7	5.2	4.4	2.0	2.2	4.9	3.1	2.3	3.7	4.8	4.5	5.0
AGE: 17																				
DELTA-P	61.3	-10.1#	8.1#	0.2	0.7	8.9#	-8.5#	-31.5#	5.5#	-20.8#	-18.7#	-1.9	11.8#	-23.4#	-1.7	-2.6	3.3	-2.9	10.7#	14.0#
STD ERR OF DP		2.8	2.8	2.7	2.0	1.2	1.1	2.6	0.7	4.6	3.5	1.7	1.2	2.6	6.2	1.9	3.1	4.5	2.4	3.2
P-VALUE	61.3	51.3	69.4	61.6	62.0	70.2	52.8	29.8	66.8	40.6	42.6	59.5	73.2	38.0	59.6	58.7	64.6	58.4	72.0	75.3
STD ERR OF P	1.5	3.2	3.3	3.5	1.8	2.0	1.8	2.7	1.5	5.1	3.6	2.1	1.8	2.8	6.6	2.3	3.3	4.6	2.8	3.2
AGE: Ad																				
DELTA-P	50.0	-4.6	-0.3	3.2	0.7	11.4#	-10.6#	-23.3#	3.8#	-10.1#	-7.5*	5.3*	13.2#	-9.9#	5.9	0.0	-1.0	5.2	-3.4	4.5
STD ERR OF DP		3.2	2.1	2.4	2.1	1.5	1.4	3.2	0.5	2.7	3.0	2.2	2.3	3.8	4.1	2.0	5.6	5.5	4.7	3.5
P-VALUE	50.0	45.4	49.6	53.2	50.6	61.4	39.4	26.7	53.8	39.9	42.5	55.2	63.2	40.1	55.9	50.0	49.0	55.2	46.6	54.4
STD ERR OF P	1.4	3.7	2.2	2.9	2.2	2.0	2.0	3.2	1.5	3.2	3.3	2.6	2.4	3.7	4.6	2.6	6.0	5.6	4.5	3.6
RESPONSE: 09 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	2.2	3.4	-1.5*	-2.1#	0.5	-0.1	0.1	-0.1	0.0	-0.1	-2.2#	-0.7	0.1	-1.9*	0.0	0.4	2.7	-0.7	-1.0	-1.2
STD ERR OF DP		2.1	0.8	0.7	0.8	0.3	0.4	0.7	0.2	1.4	0.7	0.6	0.6	0.8	1.1	0.5	2.9	1.1	0.9	0.9
STD ERR OF P	0.7	2.7	0.4	0.1	0.7	0.6	0.9	1.2	0.7	1.3	0.0	0.6	1.2	0.4	0.9	0.9	3.5	0.5	0.7	0.6
AGE: 13																				
DELTA-P	1.7	0.3	0.5	-1.0*	0.4	-0.4	0.4	0.4	-0.3	-0.5	0.4	0.8	-0.7	1.9	0.2	-0.4	0.0	-0.0	0.3	-0.6
STD ERR OF DP		0.6	0.6	0.4	0.6	0.3	0.3	1.0	0.2	0.8	1.1	0.5	0.4	1.6	1.0	0.4	1.0	0.8	0.8	1.0
STD ERR OF P	0.3	0.7	0.7	0.4	0.8	0.4	0.5	1.1	0.3	0.8	1.1	0.7	0.4	1.7	1.0	0.4	1.1	0.8	0.9	1.1
AGE: 17																				
DELTA-P	1.2	0.5	-0.8*	-0.0	0.3	-0.2	0.3	2.3	-0.3	3.4	-0.1	-0.2	-0.6*	1.5	-0.4	-0.1	0.3	0.6	-0.1	-1.2#
STD ERR OF DP		0.5	0.3	0.5	0.5	0.2	0.2	1.3	0.2	1.7	0.5	0.3	0.3	1.4	0.7	0.3	1.0	1.0	0.4	0.3
STD ERR OF P	0.3	0.6	0.2	0.6	0.6	0.3	0.4	1.4	0.2	1.9	0.5	0.4	0.3	1.6	0.8	0.3	1.1	1.0	0.4	0.0

EXERCISE: UK08

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

RESPONSE: 09 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.1	-0.8	0.1	0.7	-0.3	-1.4*	1.3*	3.0	-0.3	2.5*	-1.5	-1.3	-1.5*	1.5	0.1	-0.8	-1.1	0.2	3.2	-0.7
STD ERR OF DP		1.1	1.2	1.6	1.3	0.6	0.5	2.1	0.3	1.2	0.9	0.7	0.6	1.8	1.8	1.1	1.5	2.1	2.7	1.8
STD ERR OF P	0.8	1.1	1.3	2.1	1.5	0.7	1.2	2.1	0.9	1.7	0.8	1.0	0.7	1.6	1.8	1.5	1.4	2.1	3.0	1.9

Report #: UK09

NAEP #: K20050-238

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		03-22	09-09	05-02
National P-value:				
	UK09	58.19	84.12	73.77
Timing: (in seconds)				
UK09	Exercise Total:	38	31	*

*Time not limited by paced tape.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
EXERCISE: UK09																				
This unreleased exercise dealt with GEOMETRY at the level of Objective I.																				
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	0.9	-0.8	-0.5	1.6	-0.6	0.2	-0.2	-0.8	0.2	-0.9	0.7	-0.3	0.1	-0.5	7.4	-0.9	-0.6	-0.2	-0.4	-0.9
STD ERR OF DP		0.7	0.7	1.8	0.7	0.2	0.2	0.7	0.2	0.7	0.9	0.4	0.3	0.8	7.3	0.7	0.8	0.8	0.8	0.7
STD ERR OF P	0.7	0.1	0.3	2.5	0.2	0.9	0.6	0.2	0.9	0.0	1.6	0.4	1.0	0.3	8.0	0.0	0.3	0.5	0.5	0.0
AGE: 17																				
DELTA-P	0.1	0.4	-0.1	-0.1	-0.1	0.0	-0.0	0.0	0.0	-0.1	-0.1	0.2	-0.1	-0.1	0.2	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0
AGE: Ad	Response did not occur at this age.																			
RESPONSE: 02* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	58.2	-11.0#	-0.3	0.0	10.1#	-2.6*	2.4*	-23.2#	5.0#	-19.4#	-16.1#	1.3	10.3#	-24.1#	-16.9*	-2.0	7.0	-2.9	10.4#	17.6#
STD ERR OF DP		2.8	3.0	3.5	3.6	1.3	1.2	3.7	0.9	4.1	4.0	1.7	1.5	5.4	7.3	2.5	4.4	4.5	3.0	3.9
P-VALUE	58.2	47.2	57.9	58.2	68.3	55.6	60.6	35.0	63.2	38.8	42.1	59.5	68.5	34.1	41.3	56.2	65.2	55.3	68.6	75.8
STD ERR OF P	1.9	2.7	3.4	4.3	4.3	1.9	2.6	3.6	2.0	3.9	4.4	2.2	3.5	5.4	7.7	2.8	4.4	5.2	2.7	4.5
AGE: 17																				
DELTA-P	84.1	-3.0	-2.0	0.6	3.5*	-0.7	0.7	-20.6#	4.7#	-20.8#	-14.7#	0.4	8.7#	-17.3#	-2.9	-1.3	5.0#	-1.7	4.7	9.5#
STD ERR OF DP		1.7	1.6	1.4	1.6	1.0	0.9	3.5	0.7	3.0	2.7	1.5	1.0	4.5	3.3	1.5	2.0	4.1	2.7	1.6
P-VALUE	84.1	81.1	82.2	84.7	87.6	83.4	84.8	63.6	88.8	63.3	69.4	84.6	92.8	66.9	81.2	82.8	89.2	82.5	88.8	93.6
STD ERR OF P	0.9	2.0	1.8	1.6	1.9	1.2	1.4	3.8	0.9	3.4	2.9	1.8	0.9	4.6	3.3	1.7	1.7	4.4	2.9	1.5
AGE: Ad																				
DELTA-P	73.8	-5.8*	1.5	1.8	1.4	0.1	-0.1	-22.4#	4.2#	-11.1#	-5.9*	3.8#	11.1#	-18.6#	0.1	0.3	-2.9	3.1	0.7	12.1#
STD ERR OF DP		2.5	2.3	2.0	2.5	1.3	1.2	4.1	0.8	2.1	2.7	1.5	2.3	4.5	3.7	1.6	4.5	5.8	3.5	2.8
P-VALUE	73.8	67.9	75.3	75.6	75.1	73.9	73.7	51.4	78.0	62.6	67.9	77.6	84.9	55.1	73.8	74.0	70.9	76.9	74.5	85.9
STD ERR OF P	1.3	2.8	2.7	2.2	3.0	2.0	1.7	4.6	1.2	2.6	3.0	1.9	2.5	4.7	4.0	2.0	4.7	6.3	3.7	2.7
RESPONSE: 09 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	8.0	0.5	1.5	0.7	-2.9#	-0.1	0.1	2.4	-0.8*	5.4*	0.2	-0.8	-1.7	4.8	0.1	-0.0	-1.5	-0.7	1.2	-2.2
STD ERR OF DP		1.2	1.2	1.1	1.1	0.7	0.7	1.4	0.4	2.4	2.0	0.8	0.9	2.4	3.1	0.9	1.3	2.0	2.0	1.2
STD ERR OF P	0.7	1.4	1.4	1.4	1.3	1.0	1.0	1.4	0.8	2.6	2.1	1.0	1.0	2.5	3.3	1.1	1.4	2.2	2.1	1.2
AGE: 17																				
DELTA-P	3.8	2.1#	-0.9	-0.3	-0.6	-0.4	0.4	7.5#	-1.4#	4.1*	6.7#	-0.2	-2.9#	-0.3	-0.7	1.7	0.4	2.3	-1.6	-3.6#
STD ERR OF DP		0.8	0.8	0.9	1.1	0.6	0.5	2.3	0.4	1.9	2.1	0.9	0.5	1.2	1.6	0.9	1.6	3.1	1.0	0.6
STD ERR OF P	0.6	0.8	0.7	1.1	1.3	0.7	0.9	2.6	0.5	2.0	2.4	1.2	0.3	1.2	1.6	1.1	1.7	3.4	1.0	0.2
AGE: Ad																				
DELTA-P	5.7	2.8	-0.3	-1.2	-0.8	0.1	-0.1	10.3#	-2.1#	4.8#	3.4*	-2.1#	-5.1#	9.9#	0.4	-0.5	1.4	-2.3	-2.2	-3.5#
STD ERR OF DP		1.4	1.2	1.1	1.1	0.7	0.6	2.5	0.4	1.0	1.5	0.8	0.7	2.5	2.8	0.8	2.0	2.1	1.4	1.2
STD ERR OF P	0.7	1.6	1.4	1.3	1.3	1.0	0.9	2.5	0.6	1.4	1.9	0.9	0.5	2.7	2.6	1.0	2.2	2.2	1.2	1.1

Report #: UK10

NAEP #: K30004-23

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age:		13	17
Package-Exercise:		04-02	10-22
National P-value:			
	UK10	51.34	74.39

Timing: (in seconds)			
UK10	Exercise total:	58	54

EXERCISE: UK10

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.5	1.0	0.1	-0.5	-0.5	0.1	-0.1	0.8	-0.1	-0.5	0.5	0.2	-0.2	-0.1	2.1	-0.3	-0.5	-0.5	0.0	-0.5
STD ERR OF DP		1.0	0.4	0.3	0.3	0.1	0.1	0.8	0.1	0.3	0.7	0.2	0.1	0.4	1.9	0.3	0.3	0.3	0.5	0.3
STD ERR OF P	0.3	1.3	0.4	0.0	0.0	0.4	0.2	0.9	0.3	0.0	1.0	0.4	0.2	0.4	2.2	0.1	0.0	0.0	0.5	0.0
AGE: 17																				
DELTA-P	0.1	0.0	-0.1	-0.0	0.1	-0.0	0.0	0.3	-0.0	-0.1	-0.1	-0.0	-0.1	0.6	-0.1	-0.0	-0.1	0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.2	0.1	0.1
STD ERR OF P	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.6	0.0	0.1	0.0	0.2	0.0	0.0
RESPONSE: 03* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	51.3	-6.5*	1.5	0.3	3.6	6.4*	-6.8*	-18.3*	4.3*	-4.8	-9.7*	-3.3	7.0*	-13.0*	-3.3	3.4*	-3.9	-5.1	7.7*	5.0
STD ERR OF DP		1.9	2.6	2.2	2.1	1.2	1.2	3.0	0.8	4.9	3.1	2.1	1.7	3.6	3.1	1.7	4.0	4.5	3.7	4.8
P-VALUE	51.3	44.8	52.9	51.7	54.9	57.8	44.5	33.0	55.6	46.5	41.7	48.1	58.4	38.3	48.0	54.7	47.4	46.3	59.0	56.3
STD ERR OF P	1.3	1.8	3.2	2.6	2.4	1.7	1.9	2.9	1.5	4.3	3.3	2.7	2.2	3.6	3.3	1.9	4.3	4.7	4.1	5.0
AGE: 17																				
DELTA-P	74.4	-3.0	2.2	2.3	-2.2	7.7*	-7.1*	-22.2*	4.5*	-4.9	-15.5*	0.4	7.8*	-18.0*	-2.1	1.3	4.1*	-6.6	3.0	6.6
STD ERR OF DP		2.0	2.0	1.7	2.2	1.2	1.1	3.2	0.7	3.5	2.8	1.6	1.1	3.3	4.7	1.7	1.8	6.1	3.0	4.2
P-VALUE	74.4	71.4	76.6	76.7	72.2	82.1	67.3	52.2	78.9	69.5	58.9	74.8	82.2	56.4	72.3	75.7	78.4	67.8	77.4	81.0
STD ERR OF P	1.1	2.2	2.4	1.9	2.7	1.7	1.5	3.5	1.2	3.5	2.9	2.1	1.5	3.2	4.7	2.2	1.7	6.2	3.3	4.3
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	2.8	-0.6	1.1	0.6	-1.3*	-0.1	0.1	6.2*	-1.3*	1.4	-0.1	-0.0	-1.9*	3.9*	1.0	-0.7	-0.8	0.8	-1.3	-0.3
STD ERR OF DP		0.6	0.6	0.8	0.5	0.4	0.4	1.8	0.3	1.4	1.1	0.5	0.4	1.4	0.8	0.5	1.1	1.2	0.8	1.1
STD ERR OF P	0.4	0.7	0.7	1.0	0.5	0.4	0.6	2.0	0.3	1.4	1.2	0.7	0.3	1.5	0.9	0.5	1.2	1.4	0.8	1.2
AGE: 17																				
DELTA-P	2.3	-0.1	-0.3	-0.1	0.5	-0.5	0.4	3.4	-0.8*	3.2*	0.7	0.5	-1.5*	2.3*	-1.4	-0.2	-0.1	3.5	-0.6	-1.5*
STD ERR OF DP		0.7	0.5	0.5	0.9	0.4	0.4	1.9	0.3	1.1	0.7	0.7	0.4	1.1	0.9	0.4	0.7	3.6	0.8	0.6
STD ERR OF P	0.4	0.8	0.5	0.6	1.2	0.4	0.7	2.2	0.3	1.1	0.7	1.0	0.3	[illegible]	0.9	0.4	0.8	3.8	0.8	0.6

Report #: 9K11

NAEP #: K30006-12

Content Area: K. GEOMETRY

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

		9	13
Age:			
Package-Exercise:		07-29	09-07
National P-value:			
	9K11	3.20	27.51

Timing: (in seconds)
9K11 Exercise total: 46 36

EXERCISE: UK11

This unreleased exercise dealt with GEOMETRY at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.7	0.2	0.6	-0.4	-0.3	0.2	-0.2	2.2*	-0.8**	1.3	3.2	-0.9	-1.6**	2.5	0.2	0.1	-1.4**	2.3	-0.9	-1.5*
STD ERR OF DP		0.6	0.7	0.6	0.6	0.3	0.3	1.1	0.3	1.4	2.0	0.6	0.4	1.3	1.4	0.6	0.5	1.1	0.8	0.7
STD ERR OF P	0.4	0.6	0.8	0.8	0.7	0.5	0.5	1.1	0.4	1.4	2.0	0.6	0.3	1.4	1.4	0.8	0.4	1.2	0.8	0.7
AGE: 13																				
DELTA-P	2.9	-0.4	1.4	-0.0	-1.1	1.0**	-1.1**	1.6	-0.6**	1.6	1.2	0.4	-1.6**	7.0**	1.7	-1.0**	2.5	0.6	-0.4	-2.5**
STD ERR OF DP		0.9	0.9	0.8	0.8	0.4	0.4	1.4	0.2	2.8	1.8	0.6	0.5	2.7	1.5	0.5	1.4	1.5	1.0	0.5
STD ERR OF P	0.5	1.1	1.0	0.9	0.9	0.7	0.5	1.4	0.5	2.9	1.8	0.8	0.5	2.8	1.7	0.4	1.6	1.6	1.0	0.4
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	3.2	-2.2**	-0.0	1.0	1.0	0.0	-0.0	-2.0**	0.5**	-2.7**	-2.4**	-0.8	2.6**	-0.6	-2.0*	-0.5	-1.8*	-0.1	1.6	2.9
STD ERR OF DP		0.7	0.9	1.0	0.9	0.3	0.3	0.7	0.2	0.7	0.9	0.5	0.6	1.3	0.8	0.7	0.8	1.0	1.1	1.6
P-VALUE	3.2	1.0	3.2	4.2	4.2	3.2	3.2	1.2	3.7	0.5	0.8	2.4	5.8	2.6	1.2	2.7	1.4	3.1	4.8	6.1
STD ERR OF P	0.5	0.6	0.9	1.3	1.0	0.6	0.6	0.6	0.6	0.6	0.8	0.6	1.0	1.3	0.7	0.9	0.7	1.0	1.2	1.9
AGE: 13																				
DELTA-P	27.5	-5.5*	-0.4	2.1	3.6	3.8**	-4.1**	-20.6**	3.9**	-16.5**	-6.8*	-5.0**	12.7**	-8.0	0.8	-3.0	2.8	-1.5	0.5	9.4**
STD ERR OF DP		2.2	2.3	2.8	2.0	1.1	1.2	2.0	0.5	2.5	3.0	1.6	1.4	4.6	4.9	1.9	2.5	4.9	2.7	3.0
P-VALUE	27.5	22.1	27.1	29.6	31.1	31.3	23.4	6.9	31.4	11.0	20.7	22.5	40.2	19.5	28.3	24.5	30.3	26.0	28.1	36.9
STD ERR OF P	1.4	2.4	2.6	3.5	2.1	1.7	1.8	1.6	1.5	2.6	3.0	2.2	2.2	4.4	5.4	2.3	2.5	5.5	2.9	3.1
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	34.3	-1.3	0.5	2.9	-2.5	-1.8	1.8	-5.2	0.7	-3.3	3.3	-4.0**	-6.9**	-1.7	-2.5	3.3	1.3	3.0	-3.0	-6.2
STD ERR OF DP		2.7	3.3	2.9	3.8	1.1	1.1	3.0	0.7	4.7	5.0	1.5	1.7	4.8	7.0	2.1	2.9	3.5	3.0	3.4
STD ERR OF P	1.9	2.7	3.6	3.5	4.7	2.0	2.4	2.5	2.2	4.3	5.7	2.7	1.9	4.6	8.1	3.2	3.0	3.3	3.1	3.8
AGE: 13																				
DELTA-P	6.7	2.4*	1.4	-0.6	-3.2**	-0.6	0.7	-0.5	-0.1	3.5	1.0	-0.1	-2.1**	0.0	1.0	1.9*	-2.6*	-0.8	-0.1	-2.6
STD ERR OF DP		1.0	1.0	1.0	0.7	0.5	0.5	1.3	0.3	2.2	2.0	0.9	0.7	2.0	1.8	0.8	1.1	1.3	1.3	1.4
STD ERR OF P	0.5	1.1	1.2	1.2	0.6	0.7	0.8	1.3	0.6	2.3	2.2	1.0	0.7	2.1	1.9	1.1	1.1	1.4	1.4	1.4

Report #: UK12

NAEP #: K30027-1234

Content Area: K. CHEMISTRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age: Package-Exercise: National P-value:	9 09-02	13 12-04	17 13-03	Adult 04-03
UK12I	96.37	95.20	96.89	91.15
UK12J	3.84	22.95	41.31	52.28
UK12K	87.54	90.65	92.18	89.10
UK12L	2.18	21.36	45.85	40.93
UK12M	27.71	54.36	74.02	72.49
UK12N	1.50	2.52	11.26	10.03
UK12O	2.76	23.66	52.58	55.57
UK12C1	40.77	58.32	72.07	70.95
UK12C2	88.57	93.73	96.80	97.09
UK12C3	86.22	90.85	95.59	95.50
UK12C4	75.33	70.42	81.42	80.66
UK12C5	39.17	59.79	74.01	72.05
UK12C6	32.01	47.45	63.85	62.97
UK12C7	42.59	66.49	79.49	78.86
UK12C8	88.39	91.56	95.62	95.53
UK12C9	37.34	56.76	70.32	67.59
UK12C10	89.50	93.82	96.73	96.51

Timing: No paced tape was used in this individually administered exercise.

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                          NATION |            REGION            |      SEX       |     RACE      |   .   PARENTAL EDUCATION        |             SIZE-AND-TYPE OF COMMUNITY
                                 | SOUTH                  NORTH |                |               |         SOME    GRAD    POST  |  LOW  EXTREME SMALL  MEDIUM  MAIN   URBAN   HIGH
                          _______|_EAST___WEST_CENTRAL___EAST__|__MALE__FEMALE__|_BLACK__WHITE__|_NO HS____HS______HS______HS___|_METRO__RURAL__PLACES__CITY_BIG CTY_FRINGE_METRO_

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part I.

RESPONSE:  00    AGE:  9      TEXT:  No Response.

    DELTA-P                  0.3    -0.1    0.0    0.1   -0.0    -0.0    0.0     0.6   -0.1    -0.3   -0.3    0.2   -0.3     1.2   -0.1    0.0   -0.3    0.3   -0.3   -0.3
    STD ERR OF DP                    0.2    0.3    0.3    0.3     0.1    0.1     0.8    0.1     0.2    0.2    0.3    0.2     1.4    0.2    0.2    0.2    0.5    0.2    0.2
    STD ERR OF P             0.2     0.2    0.3    0.4    0.3     0.2    0.2     0.9    0.1     0.0    0.0    0.3    0.0     1.6    0.2    0.2    0.0    0.6    0.0    0.0

                  AGE: 13

    DELTA-P                  0.2    -0.2    0.4   -0.2   -0.1     0.1   -0.1     0.2   -0.0*   -0.2   -0.1    0.3   -0.2     0.5   -0.2   -0.2   -0.2   -0.2    0.6   -0.2
    STD ERR OF DP                    0.1    0.5    0.1    0.2     0.2    0.1     0.2    0.0     0.1    0.2    0.3    0.1     0.4    0.1    0.1    0.1    0.1    0.6    0.1
    STD ERR OF P             0.1     0.0    0.6    0.0    0.0     0.3    0.0     0.3    0.1     0.0    0.1    0.4    0.0     0.5    0.0    0.0    0.0    0.0    0.8    0.0

                  AGE: 17

                              Response did not occur at this age.

                  AGE: Ad

                              Response did not occur at this age.

RESPONSE:  10*   AGE:  9      TEXT:  All Acceptable Responses.

    DELTA-P                 96.4    -3.0#   0.9    0.9    1.1    -0.3    0.3    -4.2#   0.8#    -0.5   -4.8*  -0.0    1.9#    -3.0   -2.5   -0.3    1.3   -1.0    2.6#   1.6
    STD ERR OF DP                    1.0    0.9    0.7    0.7     0.4    0.5     1.6    0.3     2.1    2.3    0.7    0.5     2.4    1.4    0.7    1.0    1.4    0.6    1.0
    P-VALUE                 96.4    93.4   97.3   97.3   97.4    96.1   96.7    92.2   97.2    95.8   91.5   96.3   98.3    93.4   93.9   96.1   97.6   95.4   99.0   98.0
    STD ERR OF P             0.5     1.2    1.0    0.8    0.8     0.7    0.5     1.8    0.5     2.1    2.5    0.9    0.5     2.6    1.4    0.8    1.1    1.6    0.6    1.0

                  AGE: 13

    DELTA-P                 95.2    -1.5    0.3    0.2    0.8    -0.9*   0.9*   -2.7*   0.5*    -0.5   -3.1   -0.5    1.6#    -1.6   -1.3   -0.1   -1.2    0.7    0.7    2.1
    STD ERR OF DP                    1.0    1.0    0.8    1.2     0.4    0.4     1.2    0.3     1.6    1.7    0.7    0.6     1.8    1.8    0.8    1.4    2.3    1.3    1.1
    P-VALUE                 95.2    93.8   95.5   95.4   96.0    94.3   96.1    92.6   95.7    94.7   92.2   94.7   96.8    93.6   93.9   95.1   94.0   95.9   95.9   97.3
    STD ERR OF P             0.6     1.1    1.1    0.9    1.4     0.8    0.6     1.4    0.6     1.6    1.9    1.0    0.7     1.8    1.9    0.9    1.5    2.6    1.4    1.2

                  AGE: 17

    DELTA-P                 96.9    -0.9   -0.1    1.3*  -0.7    -1.2#   1.2#   -4.7#   0.7#    -3.7*  -1.9    0.5    1.4#    -1.8   -0.3   -0.7    1.4    1.2    0.9    0.4
    STD ERR OF DP                    0.7    0.6    0.5    0.7     0.4    0.4     1.6    0.3     1.8    1.3    0.6    0.5     1.5    1.6    0.5    0.7    1.5    0.7    1.0
    P-VALUE                 96.9    96.0   96.8   98.2   96.2    95.7   98.1    92.2   97.6    93.2   95.0   97.4   98.3    95.1   96.6   96.2   98.3   98.1   97.8   97.3
    STD ERR OF P             0.4     0.7    0.7    0.6    0.9     0.6    0.4     1.8    0.4     2.0    1.4    0.7    0.5     1.5    1.7    0.7    0.8    1.6    0.8    1.0

                  AGE: Ad

    DELTA-P                 91.2    -4.2    1.7    1.2    0.6     0.7   -0.6   -17.6#   2.9#    -5.6#   1.2    4.1#   3.6#  -10.4#   1.0    0.7    3.1   -5.8    1.4    4.8#
    STD ERR OF DP                    2.5    1.4    1.2    1.5     0.8    0.7     4.1    0.7     1.7    1.2    1.2    1.3     3.9    2.1    1.0    2.0    3.7    2.1    1.3
    P-VALUE                 91.2    86.9   92.9   92.3   91.7    91.8   90.5    73.5   94.1    85.6   92.3   95.3   94.7    80.7   92.1   91.8   94.2   85.3   92.5   95.9
    STD ERR OF P             0.9     3.1    1.5    1.2    1.7     1.4    1.0     4.5    0.7     2.1    1.4    1.1    1.3     4.2    2.1    1.2    2.1    3.9    2.3    1.3

RESPONSE:  39    AGE:  9      TEXT:  I Don't Know.

    DELTA-P                  0.6     1.3#  -0.2   -0.5#  -0.5#   -0.0    0.0     0.8   -0.2    -0.1    0.4    0.1   -0.3*   -0.1    0.7    0.3    0.2   -0.3   -0.6#  -0.6#
    STD ERR OF DP                    0.5    0.2    0.2    0.2     0.1    0.2     0.5    0.1     0.5    0.5    0.3    0.1     0.3    0.7    0.2    0.5    0.3    0.2    0.2
    STD ERR OF P             0.1     0.6    0.2    0.1    0.0     0.2    0.2     0.5    0.2     0.5    0.5    0.3    0.2     0.4    0.8    0.2    0.5    0.3    0.0    0.0

                  AGE: 13

    DELTA-P                  0.6     0.5   -0.3   -0.0   -0.1     0.2   -0.2     1.4*  -0.2*    0.0    0.6   -0.2   -0.2     1.4    1.2   -0.3   -0.0   -0.1   -0.6#  -0.2
    STD ERR OF DP                    0.4    0.2    0.3    0.3     0.2    0.2     0.6    0.1     0.5    0.6    0.2    0.2     1.0    1.0    0.2    0.3    0.5    0.2    0.4
    STD ERR OF P             0.2     0.5    0.2    0.3    0.3     0.3    0.2     0.7    0.2     0.6    0.7    0.2    0.2     1.1    1.1    0.2    0.3    0.5    0.0    0.4

                  AGE: 17

    DELTA-P                  0.8     1.3#   0.1   -0.5*  -0.6#    0.3   -0.3     1.7*  -0.3*    0.4    1.7   -0.1   -0.6#    0.4    1.6    0.2    0.0   -0.7#  -0.8#  -0.8#
    STD ERR OF DP                    0.5    0.4    0.3    0.2     0.2    0.2     0.7    0.1     0.2    1.0    0.2    0.2     0.7    1.5    0.3    0.5    0.2    0.2    0.2
    STD ERR OF P             0.2     0.6    0.4    0.3    0.2     0.3    0.2     0.8    0.2     0.2    1.0    0.3    0.2     0.7    1.6    0.3    0.6    0.1    0.0    0.0
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EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part I.

RESPONSE: 3N AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.2	1.2	-0.7*	-0.3	0.1	0.3	-0.2	2.2	-0.4*	0.8	1.4	-0.9*	-0.9*	1.7	0.3	-0.1	-1.2#	0.8	0.8	-1.2#
STD ERR OF DP		0.8	0.3	0.4	0.6	0.2	0.2	1.4	0.2	0.5	0.8	0.4	0.4	1.2	1.0	0.3	0.3	1.4	1.1	0.3
STD ERR OF P	0.3	1.0	0.2	0.4	0.6	0.4	0.3	1.5	0.2	0.7	0.9	0.3	0.3	1.2	1.1	0.4	0.0	1.5	1.2	0.0

EXERCISE: UK12

Part J.

RESPONSE: DO AGE: 9 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.2	0.1	0.1	-0.0	-0.2	-0.2	0.2	0.1	-0.1	0.8	-0.2	-0.1	-0.2	0.3	-0.2	0.0	0.3	-0.2	-0.2	-0.2
STD ERR OF DP		0.2	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.9	0.1	0.1	0.1	0.5	0.1	0.1	0.4	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.2	0.1	0.0	0.0	0.2	0.3	0.1	1.0	0.0	0.1	0.0	0.5	0.0	0.2	0.5	0.0	0.0	0.0
AGE: 13																				
DELTA-P	0.1	-0.1	0.4	-0.1	-0.1	0.1	-0.1	0.0	0.0	-0.1	-0.1	-0.1	0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.2	0.5
STD ERR OF DP		0.1	0.3	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.6
STD ERR OF P	0.1	0.1	0.4	0.0	0.0	0.2	0.0	0.2	0.1	0.0	0.0	0.1	0.2	0.0	0.0	0.1	0.0	0.0	0.3	0.7
AGE: 17																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	0.4	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

AGE: Ad

Response did not occur at this age.

RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.8	-1.6	-0.8	0.7	1.4	0.5	-0.6	-3.5#	0.8#	-3.8#	-3.0#	-1.8*	2.7#	-3.5#	-0.3	-1.0	-0.2	-2.4#	0.7	7.2#
STD ERR OF DP		0.8	0.8	1.0	1.2	0.4	0.4	0.6	0.2	0.6	1.0	0.8	0.9	0.6	1.8	0.7	1.3	0.9	1.3	2.2
P-VALUE	3.8	2.3	3.0	4.6	5.2	4.4	3.3	0.3	4.6	0.0	0.9	2.1	6.5	0.3	3.5	2.8	3.7	1.5	4.5	11.0
STD ERR OF P	0.6	0.7	0.8	1.2	1.6	0.7	0.7	0.3	0.7	0.0	0.9	0.8	1.3	0.3	1.9	0.7	1.3	0.7	1.5	2.6
AGE: 13																				
DELTA-P	22.9	-6.5#	-3.6*	3.8*	5.2#	0.6	-0.5	-16.3#	3.3#	-12.0#	-13.6#	-1.1	9.6#	-12.2#	-5.0*	-1.8	-0.1	-0.8	2.3	14.1#
STD ERR OF DP		2.4	1.7	1.9	2.0	1.1	1.1	1.9	0.5	2.8	2.3	1.5	1.1	4.0	2.4	1.8	2.3	2.4	3.2	3.6
P-VALUE	22.9	16.4	19.2	26.6	28.0	23.4	22.3	6.6	26.1	10.8	9.3	21.8	32.4	10.7	17.9	21.1	22.7	22.1	25.2	36.9
STD ERR OF P	1.1	2.9	1.8	2.2	2.2	1.6	1.5	1.6	1.5	2.6	2.6	1.9	1.5	4.1	2.6	2.3	2.3	2.3	3.3	3.9
AGE: 17																				
DELTA-P	41.3	-13.0#	2.3	7.0#	0.7	5.4#	-5.2#	-25.3#	4.0#	-21.1#	-17.9#	-1.5	11.3#	-20.8#	-10.1*	4.8*	-3.1	-0.7	3.5	10.8#
STD ERR OF DP		2.4	2.7	2.5	2.8	1.4	1.3	2.5	0.6	4.0	3.8	2.4	1.5	3.6	4.7	2.1	3.4	4.0	2.9	3.5
P-VALUE	41.3	28.3	43.7	48.3	42.0	46.7	36.2	16.0	45.3	20.2	23.4	39.8	52.6	20.5	31.2	46.1	38.2	40.7	44.8	52.1
STD ERR OF P	1.6	2.5	3.0	3.0	3.4	2.3	1.7	2.1	1.7	4.5	3.9	3.2	1.7	3.5	5.1	2.8	3.5	3.8	3.4	3.5
AGE: Ad																				
DELTA-P	52.3	-11.3#	4.2	-1.4	7.3#	4.8#	-4.5#	-35.0#	5.5#	-13.8#	-5.5*	3.8*	17.5#	-20.3#	-11.6#	-1.5	0.2	0.8	6.7	20.5#
STD ERR OF DP		3.3	3.4	3.2	2.5	1.4	1.3	4.1	0.7	2.7	2.7	1.9	2.3	4.3	4.1	2.2	5.3	5.2	3.5	3.4
P-VALUE	52.3	40.9	56.5	50.9	59.6	57.1	47.8	17.3	57.7	38.5	46.8	56.0	69.8	32.0	40.7	50.8	52.5	53.1	59.0	72.7
STD ERR OF P	1.9	3.5	4.2	3.9	2.3	2.5	2.1	4.0	1.9	3.7	3.4	2.6	2.3	4.2	4.1	3.2	6.0	5.3	3.5	3.5

RESPONSE: 39 AGE: 9 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.6	0.3	0.5	-0.5*	-0.2	-0.6#	0.6#	-0.2	-0.2	-0.6#	1.3	-0.1	-0.6#	0.2	-0.6#	0.1	-0.1	-0.6#	1.4	-0.6#
STD ERR OF DP		0.5	0.5	0.2	0.3	0.2	0.2	0.3	0.1	0.2	1.8	0.3	0.2	0.6	0.2	0.3	0.5	0.2	0.9	0.2
STD ERR OF P	0.2	0.5	0.6	0.1	0.4	0.1	0.4	0.3	0.2	0.0	1.9	0.4	0.0	0.6	0.0	0.4	0.5	0.0	1.1	0.0

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part J.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	0.8	0.5	0.2	-0.1	-0.5*	0.0	-0.0	1.1	-0.3*	-0.0	-0.2	-0.0	-0.1	-0.0	-0.0	0.1	0.8	0.3	-0.5	-0.7#
STD ERR OF DP		0.3	0.4	0.3	0.2	0.2	0.2	0.6	0.1	0.5	0.4	0.3	0.2	0.6	0.4	0.2	0.7	0.6	0.3	0.2
STD ERR OF P	0.2	0.4	0.4	0.3	0.2	0.2	0.3	0.7	0.2	0.4	0.5	0.3	0.3	0.6	0.4	0.3	0.8	0.6	0.3	0.1
AGE: 17																				
DELTA-P	0.9	1.3#	-0.6#	[illegible]	0.1	-0.1	0.1	1.7*	-0.2	0.4	1.5	-0.4	-0.5#	0.5	0.9	0.1	0.1	-0.2	-0.2	-0.9#
STD ERR OF DP		0.4	0.2	0.2	0.3	0.2	0.2	0.8	0.1	0.3	0.8	0.2	0.2	0.7	0.8	0.2	0.5	0.6	0.6	0.2
STD ERR OF P	0.2	0.5	0.2	0.2	0.4	0.3	0.2	0.8	0.2	0.2	0.9	0.2	0.2	0.8	0.9	0.2	0.5	0.6	0.6	0.0
AGE: Ad																				
DELTA-P	0.8	0.0	-0.2	0.2	0.0	0.1	-0.1	1.8	-0.3	0.5	0.2	-0.2	-0.4	2.2*	0.3	-0.4	-0.2	1.1	-0.4	-0.8#
STD ERR OF DP		0.3	0.3	0.4	0.3	0.2	0.2	1.2	0.2	0.5	0.4	0.3	0.3	1.0	0.4	0.2	0.4	1.4	0.4	0.2
STD ERR OF P	0.2	0.3	0.3	0.5	0.4	0.3	0.2	1.4	0.2	0.6	0.4	0.3	0.3	1.1	0.4	0.2	0.4	1.5	0.4	0.0
EXERCISE: UK12																				
Part K.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.5	0.0	-0.2	0.1	0.1	-0.0	0.0	1.1	-0.2	-0.6#	0.0	-0.2	-0.4*	1.2	0.6	-0.2	-0.1	0.1	-0.2	-0.3
STD ERR OF DP		0.3	0.3	0.4	0.3	0.1	0.1	0.8	0.1	0.2	0.6	0.2	0.2	1.5	0.6	0.2	0.4	0.5	0.3	0.3
STD ERR OF P	0.2	0.3	0.3	0.4	0.4	0.2	0.2	0.9	0.2	0.0	0.6	0.2	0.1	1.6	0.6	0.2	0.5	0.6	0.3	0.3
AGE: 13																				
DELTA-P	0.4	-0.3	0.0	-0.3	0.7	-0.1	0.1	-0.0	0.0	0.5	-0.4*	-0.3	0.2	-0.1	-0.2	-0.2	1.0	-0.8*	-0.4*	0.6
STD ERR OF DP		0.2	0.3	0.2	0.5	0.2	0.1	0.3	0.1	0.5	0.2	0.2	0.2	0.4	0.3	0.2	0.9	0.2	0.2	0.9
STD ERR OF P	0.2	0.1	0.3	0.1	0.7	0.2	0.3	0.3	0.2	0.5	0.0	0.1	0.4	0.4	0.2	0.1	1.0	0.0	0.0	1.0
AGE: 17																				
DELTA-P	0.0	0.1	-0.0	-0.0	0.0	-0.0	0.0	0.2	-0.0	0.2	-0.0	0.0	-0.0	-0.0	-0.0	0.0	0.1	-0.0	-0.0	-0.0
STD ERR OF DP		0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
AGE: Ad																				
DELTA-P	0.0	-0.1	-0.1	0.1	-0.1	-0.1	0.1	-0.1	0.0	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	87.5	-2.9	0.7	3.1*	-1.3	-0.1	0.1	-4.7*	1.0*	-4.4	-1.6	1.4	2.0*	-5.5	2.4	-1.0	2.0	-0.4	2.4	0.0
STD ERR OF DP		1.5	1.3	1.3	1.6	0.9	0.9	2.0	0.4	4.1	3.3	1.4	1.0	2.8	2.0	1.5	2.0	2.5	1.9	2.3
P-VALUE	87.5	84.6	88.2	90.6	86.3	87.4	87.7	82.8	88.5	83.1	86.0	88.9	89.6	82.0	89.9	86.6	89.5	87.1	89.9	87.6
STD ERR OF P	0.8	1.7	1.3	1.6	2.0	1.3	1.2	2.4	0.9	3.9	3.6	1.6	1.3	3.1	1.9	1.8	1.9	2.8	2.0	2.4
AGE: 13																				
DELTA-P	88.7	-1.6	-1.2	3.4#	-1.3	-0.3	0.3	-10.0#	1.6#	-2.2	-4.8	1.6	1.3	-0.0	-4.7*	-0.2	-1.0	1.2	0.5	3.7*
STD ERR OF DP		1.5	1.9	1.1	1.4	0.8	0.8	2.3	0.4	2.9	2.5	1.3	0.9	2.1	2.3	1.1	2.5	2.0	2.6	1.8
P-VALUE	88.7	87.1	87.5	92.0	87.4	88.3	89.0	78.7	90.2	86.4	83.9	90.2	89.9	88.6	84.0	88.5	87.7	89.8	89.1	92.3
STD ERR OF P	0.8	1.6	2.4	1.0	1.6	1.3	1.1	2.4	0.9	3.0	2.6	1.5	1.4	2.1	2.5	1.1	2.8	2.2	3.0	1.9
AGE: 17																				
DELTA-P	92.2	-3.4#	-1.5	2.3*	1.6	0.9	-0.9	-6.3#	1.4#	-3.0	-6.1*	-1.4	3.7#	-1.4	0.7	-0.8	-0.9	-4.0*	1.0	5.7#
STD ERR OF DP		1.3	0.9	1.0	0.9	0.6	0.6	2.2	0.4	2.8	2.7	1.0	0.7	2.1	1.5	0.9	1.3	1.9	1.9	1.0
P-VALUE	92.2	88.8	90.7	94.5	93.8	93.1	91.3	85.8	93.6	89.2	86.1	90.8	95.9	90.7	92.9	91.4	91.3	88.2	93.2	97.9
STD ERR OF P	0.6	1.5	0.9	1.2	1.0	0.9	0.8	2.3	0.7	2.5	2.8	1.2	0.7	2.1	1.5	1.3	1.3	2.0	2.0	0.9

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part K.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 10* AGE: Ad TEXT: All Acceptable Responses.																				
DELTA-P	89.1	-3.4	-0.2	1.8	1.2	2.0#	-1.9#	-14.0#	2.2#	-5.1*	-3.1	3.1*	7.0#	-10.1#	3.2	1.6	1.1	-1.0	0.9	-0.6
STD ERR OF DP		2.0	1.7	1.3	1.4	0.7	0.6	3.2	0.5	2.1	1.9	1.4	1.2	3.5	2.0	1.0	1.9	2.9	2.0	2.9
P-VALUE	89.1	85.7	88.9	90.9	90.3	91.1	87.2	75.1	91.3	84.0	86.0	92.2	96.1	79.0	92.3	90.7	90.2	88.1	90.0	88.5
STD ERR OF P	0.9	2.3	2.1	1.4	1.5	1.1	1.1	3.6	0.8	2.5	2.0	1.3	1.1	3.9	1.9	1.2	2.1	3.1	2.0	3.2
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	3.1	0.3	1.6	-0.9	-0.7	0.1	-0.1	-0.2	-0.1	3.6	2.5	-1.7#	0.2	1.2	-1.5*	-0.1	-0.7	0.7	-0.5	1.2
STD ERR OF DP		0.6	0.9	0.7	0.7	0.3	0.4	0.8	0.2	2.9	2.8	0.5	0.6	1.7	0.7	0.7	0.9	1.2	1.0	1.4
STD ERR OF P	0.4	0.6	1.1	0.9	0.7	0.6	0.5	0.8	0.5	2.9	2.9	0.5	0.8	1.8	0.6	0.8	1.0	1.3	1.0	1.6
AGE: 13																				
DELTA-P	3.0	0.7	0.8	-1.1	-0.2	-0.1	0.0	1.0	-0.4	2.3	0.9	-0.8	-0.3	0.2	0.6	-0.2	0.3	0.4	-0.7	-1.7*
STD ERR OF DP		0.9	0.8	0.6	0.7	0.5	0.5	1.1	0.2	1.5	1.4	0.6	0.5	1.0	0.6	0.5	1.2	1.1	1.0	0.7
STD ERR OF P	0.4	1.0	1.0	0.5	0.8	0.7	0.6	1.2	0.5	1.6	1.6	0.7	0.6	1.1	0.7	0.6	1.3	1.1	1.1	0.7
AGE: 17																				
DELTA-P	2.2	0.3	0.8	-0.7	-0.1	-0.1	0.1	0.7	-0.2	1.5	-0.4	1.0	-1.3#	-0.7	-1.7#	0.6	0.6	-0.1	0.4	-1.1
STD ERR OF DP		0.7	0.5	0.4	0.5	0.3	0.3	1.0	0.2	1.2	0.8	0.6	0.3	0.7	0.3	0.5	0.8	0.9	0.9	0.6
STD ERR OF P	0.3	0.8	0.6	0.4	0.5	0.4	0.5	1.1	0.3	1.2	0.9	0.7	0.3	0.6	0.3	0.6	0.9	0.9	0.9	0.6
AGE: Ad																				
DELTA-P	2.1	0.4	0.4	-0.5	-0.3	-0.8	0.8	0.2	-0.2	0.5	0.8	-0.8	-0.8	1.8	-0.8	-0.3	-1.2	-0.4	1.4	0.0
STD ERR OF DP		0.8	0.8	0.5	0.6	0.4	0.3	1.0	0.2	0.6	0.9	0.5	0.6	1.6	0.9	0.5	0.7	1.2	1.5	1.0
STD ERR OF P	0.4	1.0	1.0	0.5	0.6	0.4	0.6	1.0	0.4	0.7	1.1	0.5	0.7	1.7	0.9	0.5	0.6	1.2	1.7	1.1

EXERCISE: UK12

Part L.

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	0.6	-0.1	-0.1	0.2	-0.1	-0.1	0.1	0.1	-0.1	-0.2	-0.6#	-0.2	-0.1	0.0	0.6	-0.3	-0.2	0.3	-0.1	0.4
STD ERR OF DP		0.3	0.3	0.3	0.3	0.2	0.2	0.4	0.1	0.4	0.2	0.3	0.2	0.6	0.6	0.2	0.4	0.6	0.5	0.7
STD ERR OF P	0.2	0.3	0.3	0.4	0.4	0.3	0.3	0.4	0.2	0.4	0.0	0.3	0.3	0.6	0.6	0.2	0.4	0.7	0.5	0.7
AGE: 13																				
DELTA-P	0.6	-0.4	0.8	-0.4	0.0	0.1	-0.1	0.9	-0.4#	1.0	0.7	-0.3	-0.5*	1.2	0.3	-0.5*	-0.4	0.3	0.5	-0.1
STD ERR OF DP		0.2	0.5	0.2	0.3	0.2	0.2	0.6	0.2	0.9	0.7	0.3	0.2	1.3	0.6	0.2	0.3	0.4	0.6	0.5
STD ERR OF P	0.2	0.2	0.6	0.2	0.4	0.3	0.2	0.7	0.1	1.0	0.7	0.3	0.1	1.4	0.6	0.1	0.3	0.4	0.6	0.5
AGE: 17																				
DELTA-P	0.2	-0.1	0.1	0.1	-0.1	-0.1	0.1	0.2	-0.0	-0.2*	-0.0	0.0	-0.1	0.1	-0.0	0.1	0.3	-0.2*	-0.2*	-0.2*
STD ERR OF DP		0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.2	0.1	0.2	0.2	0.2	0.4	0.0	0.0	0.0
AGE: Ad																				
Response did not occur at this age.																				
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	2.2	-1.5#	-1.3#	0.9	1.5	0.9#	-0.9#	-1.7#	0.2	-2.2#	1.0	-1.2#	1.8#	-1.8#	-1.2	-1.0#	0.3	-0.8	1.3	4.0#
STD ERR OF DP		0.4	0.5	0.6	0.8	0.3	0.3	0.4	0.2	0.4	2.2	0.4	0.5	0.4	0.8	0.4	1.1	0.7	0.8	1.3
P-VALUE	2.2	0.7	0.9	3.1	3.7	3.0	1.3	0.5	2.4	0.0	3.1	0.9	4.0	0.4	1.0	1.2	2.5	1.3	3.4	6.2
STD ERR OF P	0.4	0.4	0.5	0.8	1.0	0.5	0.4	0.4	0.4	0.0	2.3	0.4	0.8	0.4	0.8	0.3	1.2	0.8	0.9	1.4

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part L.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 10* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	21.4	-8.0#	-1.6	5.1*	3.1	4.6#	-4.5#	-14.2#	3.1#	-11.5#	-10.0#	-1.3	7.9#	-14.4#	2.0	-3.4	-0.2	0.7	3.8	11.0#
STD ERR OF DP		1.8	1.8	2.4	1.9	1.1	1.1	1.9	0.5	2.8	2.2	1.1	1.2	2.8	3.6	1.9	2.9	3.2	3.1	3.9
P-VALUE	21.4	13.3	19.8	26.4	24.4	26.0	16.9	7.2	24.5	9.9	11.3	20.0	29.3	6.9	23.4	18.0	21.2	22.1	25.1	32.4
STD ERR OF P	1.2	1.9	1.9	3.2	1.9	1.7	1.6	1.5	1.5	2.7	2.5	1.7	1.7	2.6	3.7	2.4	3.3	3.2	3.1	4.2
AGE: 17																				
DELTA-P	45.9	-12.5#	0.7	2.8	6.5*	7.0#	-6.8#	-28.8#	5.1#	-24.8#	-21.1#	-1.4	12.9#	-22.7#	-9.0	2.4	2.2	-7.0	5.1	15.1#
STD ERR OF DP		2.6	3.0	2.8	2.8	1.3	1.3	2.4	0.7	4.2	3.6	1.9	1.2	3.4	4.5	2.1	4.6	4.3	3.5	3.7
P-VALUE	45.9	33.4	46.6	48.7	52.3	52.9	39.1	17.1	50.9	21.0	24.8	44.5	58.7	23.2	36.9	48.2	48.1	38.9	51.0	60.9
STD ERR OF P	1.7	2.8	3.4	3.4	3.2	2.2	2.0	2.1	1.7	4.7	3.5	2.5	2.0	3.3	4.6	2.7	5.1	4.2	3.9	4.0
AGE: Ad																				
DELTA-P	40.9	-5.9*	5.4	-0.5	-0.1	13.3#	-12.4#	-27.0#	4.5#	-15.4#	-4.7	4.3*	17.9#	-14.0#	-7.0	-1.2	5.4	1.5	3.2	9.9*
STD ERR OF DP		2.8	3.0	2.6	2.9	1.3	1.3	3.3	0.6	2.7	3.2	1.9	2.4	4.1	4.8	2.0	3.9	5.5	4.8	4.6
P-VALUE	40.9	35.0	46.4	40.4	40.9	54.3	28.5	13.9	45.4	25.5	36.2	45.2	58.8	27.0	34.0	39.7	46.3	42.5	44.1	50.8
STD ERR OF P	1.6	3.0	3.7	3.0	3.2	2.3	1.8	3.0	1.7	3.3	3.3	2.5	2.7	3.8	4.8	2.6	4.2	5.7	5.1	5.2
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	2.1	-0.1	0.7	-0.3	-0.3	-0.2	0.2	0.0	-0.2	-2.2#	-0.2	1.9*	-0.7*	-1.3	3.6	-1.1#	0.9	-1.8#	1.7	-0.0
STD ERR OF DP		0.6	0.7	0.8	0.7	0.3	0.3	0.7	0.2	0.4	1.2	0.8	0.4	0.6	2.3	0.4	1.0	0.6	1.1	0.9
STD ERR OF P	0.4	0.6	0.7	1.0	0.8	0.6	0.5	0.8	0.5	0.8	1.2	1.1	0.5	0.7	2.5	0.4	1.0	0.4	1.2	1.1
AGE: 13																				
DELTA-P	4.1	2.2#	1.5	-1.2*	-2.1#	-0.5	0.5	1.9	-0.3	4.2*	3.3*	-1.4*	-0.6	0.6	1.2	0.6	-0.5	-2.2#	1.0	-1.7
STD ERR OF DP		0.6	1.0	0.6	0.6	0.4	0.4	1.1	0.2	1.8	1.4	0.6	0.5	1.4	1.3	0.6	1.0	0.7	1.3	0.9
STD ERR OF P	0.4	0.6	1.3	0.7	0.5	0.4	0.7	1.2	0.5	1.9	1.6	0.7	0.6	1.4	1.4	0.7	1.1	0.8	1.4	0.9
AGE: 17																				
DELTA-P	3.4	1.8	0.6	0.2	-2.3#	0.1	-0.1	3.7#	-0.7*	8.6	2.2	-0.8	-2.2#	3.2	8.3	-0.4	-1.6	-1.4	-2.5#	-1.6
STD ERR OF DP		1.3	1.1	1.8	0.9	0.8	0.8	1.5	0.3	6.7	1.3	0.9	0.8	1.9	7.1	0.9	0.9	1.2	0.9	1.2
STD ERR OF P	0.8	1.3	1.0	2.5	0.4	1.5	0.7	1.5	1.0	7.4	1.1	0.7	0.4	2.0	7.9	0.7	0.5	1.0	0.6	1.1
AGE: Ad																				
DELTA-P	2.4	1.3	-0.9	1.3	-1.7#	-0.6*	0.6*	0.7	-0.3	0.2	0.8	-0.6	-0.9	-0.6	1.2	1.1	-1.2	0.6	-1.0	-2.0#
STD ERR OF DP		1.0	0.7	1.0	0.5	0.3	0.3	1.2	0.2	0.9	0.8	0.8	0.7	1.0	1.3	0.7	0.8	1.6	1.1	0.5
STD ERR OF P	0.5	1.1	0.7	1.3	0.3	0.5	0.6	1.1	0.6	0.9	0.9	1.1	0.8	0.9	1.4	1.0	0.8	1.7	1.2	0.4

EXERCISE: UK12

Part M.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	4.2	1.6	-1.6	0.8	-1.0	-0.6	0.7	1.9	-0.5	7.4#	0.2	1.0	-2.9#	1.4	1.8	1.4	0.1	-0.9	-1.6	-3.6#
STD ERR OF DP		1.4	1.0	1.5	1.1	0.5	0.5	2.0	0.4	2.0	2.5	1.0	0.7	2.0	2.0	1.0	2.0	1.5	1.3	0.9
STD ERR OF P	0.8	1.6	0.8	2.0	1.1	0.8	1.0	2.1	0.9	2.2	2.5	1.5	0.4	2.1	2.3	1.5	2.1	1.5	1.4	0.6
AGE: 13																				
DELTA-P	1.7	0.5	-0.6	-1.0	1.2	-0.0	0.0	1.9*	-0.3	2.0	0.6	-0.5	-0.3	-0.2	0.5	0.4	1.7	-1.2	-1.3*	-0.6
STD ERR OF DP		0.8	0.6	0.6	1.5	0.4	0.4	0.8	0.1	1.4	1.0	0.3	0.4	0.8	0.9	0.5	1.4	0.7	0.6	0.9
STD ERR OF P	0.5	0.9	0.5	0.4	2.0	0.5	0.8	1.1	0.6	1.5	0.9	0.6	0.8	0.7	0.9	0.9	1.9	0.5	0.4	0.8
AGE: 17																				
DELTA-P	0.3	0.2	0.1	-0.4#	0.2	-0.2*	0.2*	1.1	-0.3#	0.3	0.5	-0.0	-0.2*	-0.3	0.4	-0.1	0.4	0.6	-0.4#	-0.4#
STD ERR OF DP		0.2	0.2	0.1	0.2	0.1	0.1	0.6	0.1	0.4	0.4	0.2	0.1	0.2	0.5	0.1	0.3	0.6	0.1	0.1
STD ERR OF P	0.1	0.3	0.3	0.0	0.3	0.1	0.2	0.6	0.1	0.4	0.5	0.2	0.1	0.1	0.6	0.2	0.4	0.7	0.0	0.0

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
EXERCISE: VK12																				
This unreleased exercise dealt with GEOMETRY at the level of Objective I.																				
Part B.																				
RESPONSE: 00 AGE: Ad TEXT: No Response.																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.0	-0.0	0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.2	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	27.7	-11.2**	1.6	6.2**	2.3	2.8**	-3.0**	-15.6**	3.8**	-13.2**	-21.7**	-3.9	9.0**	-9.1**	-5.0	-4.1*	-3.7	3.0	6.3	16.3**
STD ERR OF DP		2.3	2.2	2.0	2.2	1.1	1.2	2.5	0.6	4.1	2.6	2.2	1.6	2.9	3.9	1.8	2.9	2.9	3.6	3.2
P-VALUE	27.7	16.6	29.3	33.9	30.0	30.5	24.8	12.2	31.5	14.5	6.1	23.8	36.7	18.6	22.8	23.6	24.0	30.7	34.0	44.0
STD ERR OF P	1.2	2.6	2.5	2.3	2.6	1.8	1.5	2.3	1.4	4.2	2.4	2.3	2.2	2.9	3.9	2.2	3.3	3.0	3.9	3.3
AGE: 13																				
DELTA-P	54.4	-19.1**	3.0	6.3*	7.3**	1.5	-1.4	-27.4**	4.2**	-19.6**	-17.1**	0.6	9.6**	-10.0**	-9.8	-4.3	-2.2	5.3	5.0	16.9**
STD ERR OF DP		3.0	2.6	2.9	2.9	1.2	1.2	3.2	0.7	3.6	4.3	1.6	1.5	3.7	5.9	2.1	4.1	3.8	3.5	2.9
P-VALUE	54.4	35.3	57.4	60.7	61.6	55.9	52.9	27.0	58.6	34.7	37.3	54.9	63.9	44.3	44.5	50.1	52.2	59.7	59.4	71.2
STD ERR OF P	1.7	3.6	2.7	3.5	3.3	2.1	2.0	3.0	1.9	3.9	5.2	2.2	1.8	3.7	6.6	2.7	4.3	3.9	4.0	3.0
AGE: 17																				
DELTA-P	74.0	-14.6**	2.3	3.2	6.3**	4.1**	-4.0**	-24.5**	4.3**	-25.7**	-15.9**	1.2	9.2**	-14.7**	-22.8**	1.0	2.5	3.7	6.8**	12.6**
STD ERR OF DP		2.2	1.8	2.2	1.8	1.3	1.2	3.2	0.7	4.7	3.5	1.5	1.2	3.5	5.0	1.8	2.4	3.8	2.4	3.1
P-VALUE	74.0	59.4	76.4	77.2	80.3	78.1	70.1	49.5	78.4	48.3	58.2	75.2	83.3	59.3	51.3	75.0	76.5	77.7	80.8	86.6
STD ERR OF P	1.2	2.4	1.8	2.9	2.0	1.8	1.7	3.5	1.2	5.1	3.6	1.9	1.2	3.7	5.5	1.9	2.2	4.1	2.4	3.2
AGE: Ad																				
DELTA-P	72.5	-8.3*	1.8	2.7	2.3	5.8**	-5.4**	-36.0**	4.9**	-14.8**	-3.3	5.7**	15.3**	-15.3**	-0.5	0.5	3.4	1.2	2.4	4.2
STD ERR OF DP		3.5	3.2	2.2	2.0	1.2	1.2	4.0	0.7	2.2	2.4	1.9	1.7	5.0	3.9	1.7	3.8	4.0	4.3	3.1
P-VALUE	72.5	64.2	74.3	75.2	74.7	78.3	67.1	36.5	77.4	57.7	69.2	78.2	87.8	57.2	72.0	73.0	75.9	73.7	74.9	76.6
STD ERR OF P	1.7	4.0	4.0	2.2	3.1	1.9	2.1	4.2	1.6	3.2	2.9	2.2	1.7	5.2	3.9	2.5	4.5	4.0	4.7	3.1
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	31.7	5.1*	1.9	-3.6	-2.6	-2.3*	2.4*	3.9	-1.0**	5.8	10.5*	1.0	-4.6**	4.2	9.5	-0.8	0.4	1.3	-3.2	-6.4
STD ERR OF DP		2.4	2.4	2.5	2.7	1.0	1.1	3.3	0.7	5.8	4.2	1.9	1.4	4.6	5.1	1.7	2.9	3.3	3.8	3.3
STD ERR OF P	1.4	2.7	2.5	3.0	3.3	1.6	2.0	3.5	1.6	5.5	4.1	2.5	2.1	4.9	5.7	2.2	3.0	3.2	4.2	3.5
AGE: 13																				
DELTA-P	25.9	12.6**	1.9	-4.2	-8.4**	-0.8	0.8	15.2**	-3.0**	19.9**	9.4*	-1.3	-6.5**	3.6	11.4*	0.4	1.8	-1.7	-3.4	-8.6**
STD ERR OF DP		2.4	2.1	2.2	2.0	1.1	1.1	3.1	0.6	3.8	4.3	1.2	1.4	3.1	5.3	1.9	3.5	3.2	3.2	2.4
STD ERR OF P	1.3	2.9	2.3	2.6	2.2	1.9	1.5	3.2	1.5	4.2	4.9	1.7	1.6	3.1	5.9	2.3	3.7	3.3	3.4	2.6
AGE: 17																				
DELTA-P	15.2	9.2**	-0.2	-1.8	-5.4**	-1.8	1.7	17.9**	-3.5**	17.0**	9.3**	-0.1	-6.7**	10.0**	14.2*	0.3	-2.6	-4.2	-3.2	-10.1**
STD ERR OF DP		2.2	1.5	2.2	1.6	1.1	1.0	3.0	0.6	6.2	3.2	1.3	1.1	2.9	6.3	1.3	2.0	2.6	2.2	1.9
STD ERR OF P	1.1	2.5	1.4	2.8	1.6	1.7	1.3	3.2	1.1	6.9	3.1	1.5	1.1	3.1	7.0	1.3	1.8	2.7	2.4	1.8
AGE: Ad																				
DELTA-P	11.8	3.1	2.0	-1.0	-3.9**	-2.9**	2.7**	17.7**	-2.4**	6.8**	3.5	-3.5*	-7.4**	4.8	3.9	-1.1	-3.7	4.8	-1.2	-1.0
STD ERR OF DP		2.2	2.6	1.5	1.5	0.8	0.8	4.3	0.6	2.0	1.8	1.5	1.4	3.4	3.0	1.1	2.3	3.9	2.0	3.2
STD ERR OF P	1.1	2.4	3.4	1.5	1.3	1.2	1.6	4.6	1.1	2.8	2.4	1.4	1.2	3.6	3.1	1.4	2.7	4.1	2.3	3.5
EXERCISE: VK12																				
Part B.																				
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	3.5	2.4*	0.3	-0.8	-1.7*	-0.3	0.3	2.6	-0.9**	0.8	-1.3	0.1	-1.7**	0.3	0.5	0.5	1.9	1.8	-2.4**	-3.5**
STD ERR OF DP		1.1	0.9	0.8	0.8	0.5	0.5	1.5	0.3	1.9	1.1	0.7	0.6	2.2	1.3	0.9	1.5	1.5	0.9	0.5
STD ERR OF P	0.5	1.3	1.1	0.9	0.8	0.7	0.7	1.6	0.5	2.1	1.1	0.9	0.6	2.3	1.5	1.2	1.4	1.7	0.8	0.8

EXERCISE: OK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part B.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.5	0.1	1.3	-0.6	-0.6	0.1	-0.1	3.1**	-0.8**	3.0	-1.2**	-0.1	-0.9*	6.4**	-0.3	-0.4	-0.4	0.1	-0.9*	-1.0
STD ERR OF DP		0.5	0.9	0.4	0.4	0.3	0.3	0.9	0.3	1.9	0.4	0.4	0.4	2.5	0.7	0.4	0.5	0.9	0.4	0.6
STD ERR OF P	0.3	0.6	1.1	0.4	0.4	0.5	0.4	1.1	0.2	2.0	0.2	0.5	0.3	2.8	0.7	0.5	0.5	1.0	0.5	0.5
AGE: 17																				
DELTA-P	0.5	-0.2	-0.0	0.0	0.2	-0.2	0.1	0.5	-0.1	1.2	-0.3	0.1	-0.3	0.2	-0.1	0.2	0.1	0.0	-0.5**	-0.1
STD ERR OF DP		0.2	0.3	0.3	0.3	0.2	0.2	0.5	0.1	1.1	0.2	0.2	0.2	0.5	0.4	0.3	0.3	0.5	0.2	0.4
STD ERR OF P	0.2	0.2	0.3	0.4	0.4	0.2	0.3	0.6	0.2	1.2	0.2	0.3	0.1	0.5	0.4	0.4	0.3	0.5	0.0	0.4
AGE: Ad																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	1.5	0.2	-0.1	0.1	-0.2	-0.2	0.2	-0.8	0.1	0.3	0.4	-0.6	-0.4	-0.7	2.9	-0.8*	0.4	-1.3**	-0.8	2.0
STD ERR OF DP		0.9	0.7	0.6	0.7	0.3	0.3	0.5	0.2	1.7	1.2	0.4	0.4	0.7	1.9	0.4	1.0	0.5	0.7	1.5
P-VALUE	1.5	1.7	1.4	1.6	1.3	1.3	1.7	0.7	1.6	1.8	1.9	0.9	1.1	0.8	4.4	0.7	1.9	0.3	0.7	3.5
STD ERR OF P	0.4	1.1	0.8	0.6	0.7	0.4	0.6	0.4	0.5	1.8	1.3	0.4	0.5	0.6	2.1	0.5	1.0	0.3	0.7	1.7
AGE: 13																				
DELTA-P	2.5	-0.9	-1.5	0.7	1.4	0.3	-0.3	-2.0**	0.5**	-2.4**	-1.0	0.2	1.0*	-2.0**	-1.0	0.7	0.2	-0.6	-1.0	1.7
STD ERR OF DP		1.0	0.8	0.9	1.8	0.4	0.4	0.7	0.2	0.7	1.0	0.8	0.5	0.8	1.1	1.3	1.5	1.2	1.0	1.5
P-VALUE	2.5	1.6	1.0	3.3	3.9	2.8	2.2	0.6	3.0	0.1	1.5	2.7	3.5	0.5	1.5	3.2	2.7	1.9	1.5	4.2
STD ERR OF P	0.7	0.9	0.4	0.8	2.4	0.8	0.8	0.3	0.8	0.1	0.9	1.4	0.8	0.5	0.9	1.8	1.6	1.1	0.9	1.5
AGE: 17																				
DELTA-P	11.3	-4.3**	0.8	-0.2	3.1	4.9**	-4.7**	-9.3**	1.2**	-3.8	-4.4	-3.3**	4.9**	-7.1**	-4.7*	2.1	-0.9	-5.6*	-2.2	11.4**
STD ERR OF DP		1.7	3.1	2.1	1.9	1.3	1.3	1.5	0.4	4.0	2.5	1.2	0.8	2.0	2.2	2.0	2.6	2.4	2.0	2.7
P-VALUE	11.3	6.9	12.1	11.0	14.3	16.1	6.6	1.9	12.5	7.5	6.9	8.0	16.2	4.2	6.5	13.3	10.4	5.6	9.8	22.6
STD ERR OF P	1.3	1.5	3.9	2.5	2.0	2.5	1.0	0.8	1.3	4.8	2.5	1.3	1.8	1.6	2.0	2.9	2.7	2.2	2.0	2.8
AGE: Ad																				
DELTA-P	10.0	-2.7	2.4	-2.6	2.9	6.5**	-6.1**	-7.1**	1.2**	-5.3**	-5.0**	-0.1	10.0**	-7.0**	-5.8**	0.2	0.4	10.6*	-0.2	1.7
STD ERR OF DP		1.5	1.4	1.3	1.5	1.0	0.9	2.1	0.3	1.0	1.4	1.3	1.8	1.5	1.6	1.4	2.7	4.5	2.5	2.3
P-VALUE	10.0	7.4	12.4	7.4	12.9	16.5	4.0	3.0	11.2	4.8	5.0	9.9	20.1	3.0	4.3	10.2	10.4	20.6	9.8	11.7
STD ERR OF P	0.8	1.6	1.7	1.5	1.8	1.6	0.6	2.2	0.9	1.2	1.4	1.3	2.3	1.2	1.4	1.6	2.6	4.8	2.6	2.7
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	22.5	2.1	3.1	-0.5	-4.2*	-0.6	0.6	-1.5	-0.1	-3.0	10.1	0.6	-3.4**	-3.0	10.7*	2.1	-3.1	-0.3	-4.7	-3.3
STD ERR OF DP		2.2	2.1	2.0	2.0	1.0	1.0	1.9	0.4	4.9	5.1	1.8	1.3	2.7	5.1	1.5	2.4	3.1	3.2	2.9
STD ERR OF P	1.2	2.6	2.3	2.4	2.3	1.5	1.6	2.0	1.4	5.1	5.3	2.1	1.8	2.5	5.7	1.8	2.4	3.4	3.3	3.1
AGE: 13																				
DELTA-P	21.1	7.2**	5.5**	-3.9	-7.4**	1.7	-1.7	11.7**	-3.0**	16.8**	11.2**	-1.0	-6.3**	9.9**	6.3	0.4	1.2	-1.7	-2.0	-9.4**
STD ERR OF DP		2.1	2.1	2.2	1.5	1.3	1.3	2.9	0.7	5.7	4.1	1.8	1.3	3.2	3.9	1.7	2.7	2.7	3.2	2.3
STD ERR OF P	1.2	2.4	2.4	2.7	1.3	1.8	1.7	2.9	1.3	5.9	4.7	1.9	1.3	3.0	4.4	2.3	2.7	2.8	3.4	2.2
AGE: 17																				
DELTA-P	17.1	8.6**	1.1	-2.6	-5.2**	2.4*	-2.3*	12.7**	-2.7**	15.4**	7.7**	-0.0	-5.6**	7.4*	13.0*	0.5	-1.6	-1.5	-5.3**	-7.7**
STD ERR OF DP		2.0	1.7	2.0	1.3	1.0	1.0	3.0	0.5	6.1	2.3	1.2	1.1	3.8	6.2	1.5	2.1	2.7	2.0	2.3
STD ERR OF P	1.1	2.2	1.8	2.6	1.2	1.8	1.1	3.1	1.1	6.8	2.4	1.3	0.9	3.6	6.8	1.8	2.0	2.6	2.0	2.2
AGE: Ad																				
DELTA-P	11.7	4.2	0.9	-0.6	-4.1**	2.9*	-2.7*	20.3**	-3.4**	4.3**	-2.5	1.1	-7.2**	8.4*	-0.7	0.9	-3.5	0.3	-1.4	-4.1
STD ERR OF DP		2.7	2.0	1.7	1.4	1.3	1.1	4.1	0.7	1.7	1.5	1.2	1.3	3.8	1.7	1.3	2.1	2.8	3.1	2.3
STD ERR OF P	1.1	3.3	2.4	1.9	1.2	2.0	1.3	4.7	0.9	2.2	1.9	1.6	1.2	4.2	1.6	1.7	2.3	2.9	3.5	2.3

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part O.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	4.0	0.1	-0.6	-0.8	1.4	-0.5	0.6	1.1	-0.4	4.0	1.6	0.6	-1.0	-1.2	-0.3	-0.6	2.0	0.1	0.9	-0.8
STD ERR OF DP		0.8	1.0	0.8	1.2	0.5	0.5	1.5	0.3	2.6	2.7	0.7	0.6	1.5	1.1	0.9	1.6	1.4	2.0	1.5
STD ERR OF P	0.5	0.9	1.1	0.8	1.5	0.8	0.7	1.6	0.6	2.6	2.8	1.0	0.8	1.5	1.1	0.9	1.7	1.5	2.2	1.7
AGE: 13																				
DELTA-P	2.7	-0.4	1.2	-0.9	0.3	-0.1	0.1	2.8*	-0.8*	3.7	-0.4	-0.0	-0.9*	3.6*	-1.1	-0.2	2.3	-0.7	-0.7	-1.9*
STD ERR OF DP		0.7	1.0	0.7	1.3	0.4	0.4	1.2	0.3	2.1	1.0	0.5	0.4	1.6	0.9	0.5	1.8	0.9	0.8	0.8
STD ERR OF P	0.5	0.6	1.1	0.6	1.7	0.5	0.8	1.4	0.5	2.2	1.0	0.8	0.8	1.8	0.8	0.7	2.1	0.9	0.8	0.6
AGE: 17																				
DELTA-P	0.6	0.2	0.1	-0.4	0.2	-0.2	0.2	0.9	-0.2*	0.6	-0.3	0.0	-0.4*	0.5	0.2	0.1	0.2	0.3	-0.6*	-0.6*
STD ERR OF DP		0.3	0.3	0.2	0.3	0.2	0.1	0.5	0.1	0.6	0.2	0.2	0.1	0.6	0.5	0.2	0.3	0.6	0.1	0.1
STD ERR OF P	0.1	0.3	0.3	0.2	0.3	0.2	0.2	0.5	0.1	0.6	0.2	0.3	0.1	0.6	0.6	0.3	0.4	0.6	0.0	0.0
AGE: Ad																				
DELTA-P	0.1	0.1	-0.1	0.1	-0.1	0.0	-0.0	0.4	-0.0	0.3	-0.1	-0.1	-0.1	0.4	-0.1	0.0	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.2	0.0	0.1	0.1	0.5	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	2.8	-1.8*	1.0	-0.0	0.8	0.9*	-1.0*	-2.0*	0.3	-2.8*	-0.1	-1.4*	2.3*	-1.5	-0.3	-0.8	-2.1*	-0.4	0.9	5.3*
STD ERR OF DP		0.5	1.1	0.8	0.7	0.4	0.4	0.6	0.2	0.5	1.8	0.6	0.7	0.9	1.3	0.6	0.6	0.9	1.1	2.0
P-VALUE	2.8	0.9	3.8	2.7	3.6	3.7	1.8	0.8	3.0	0.0	2.7	1.4	5.1	1.3	2.4	2.0	0.7	2.4	3.6	8.1
STD ERR OF P	0.5	0.4	1.3	0.9	0.7	0.7	0.5	0.4	0.6	0.0	1.9	0.5	1.1	0.8	1.4	0.6	0.5	1.0	1.3	2.3
AGE: 13																				
DELTA-P	23.7	-8.9*	-4.6*	1.8	10.5*	1.1	-1.1	-17.4*	3.8*	-13.6*	-13.1*	-1.8	10.0*	-14.6*	-11.7*	-1.6	-1.4	4.8	1.6	17.7*
STD ERR OF DP		2.1	1.7	1.9	1.7	1.0	1.0	1.7	0.5	3.2	2.0	1.5	1.1	1.8	3.4	1.9	1.9	3.3	3.8	3.1
P-VALUE	23.7	14.8	19.1	25.4	34.2	24.8	22.6	6.3	27.5	10.1	10.5	21.8	33.6	9.0	12.0	22.0	22.3	28.4	25.3	41.4
STD ERR OF P	1.1	2.4	1.8	2.3	1.9	1.7	1.3	1.5	1.3	2.9	2.0	2.0	1.6	1.6	3.2	2.5	1.9	3.3	4.2	3.3
AGE: 17																				
DELTA-P	52.6	-14.1*	-3.1	4.9	9.0*	5.6*	-5.4*	-35.6*	6.1*	-23.5*	-19.9*	-1.3	11.8*	-25.2*	-12.0*	2.2	-0.8	0.6	2.7	21.2*
STD ERR OF DP		2.2	2.9	2.7	2.4	1.2	1.1	2.6	0.7	4.6	3.8	2.0	1.4	3.3	4.6	2.3	3.6	3.6	3.2	3.6
P-VALUE	52.6	38.5	49.4	57.5	61.6	58.2	47.2	17.0	58.7	29.1	32.7	51.3	64.4	27.4	40.6	54.8	51.8	53.2	55.3	73.8
STD ERR OF P	1.6	2.1	3.3	3.3	2.7	2.2	1.7	2.2	1.5	5.0	4.0	2.4	2.0	3.1	4.7	2.8	3.9	3.4	3.4	3.7
AGE: Ad																				
DELTA-P	55.6	-8.2*	2.4	-1.9	7.1*	6.5*	-6.1*	-39.4*	5.8*	-13.8*	-7.6*	8.2*	13.9*	-19.6*	-1.7	-2.3	3.3	-0.2	-0.1	20.1*
STD ERR OF DP		3.7	2.7	2.4	3.4	1.4	1.4	3.3	0.7	2.8	3.4	2.1	1.9	4.6	5.5	1.6	3.2	4.8	5.6	2.8
P-VALUE	55.6	47.4	57.9	53.7	62.7	62.1	49.5	16.2	61.4	41.8	48.0	63.7	69.5	35.9	53.9	53.3	58.9	55.4	55.5	75.7
STD ERR OF P	1.7	4.2	3.1	2.6	4.1	2.2	2.2	3.0	1.7	3.6	3.8	2.5	2.1	4.8	5.8	2.5	3.9	4.6	6.0	2.2
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	31.6	-3.4	5.9*	-0.2	-1.9	-1.7	1.8	-7.1*	0.7	-3.4	-4.8	0.5	-0.8	-6.6	6.3	-2.3	-1.0	-0.2	1.6	5.5
STD ERR OF DP		2.7	2.6	3.1	3.0	1.2	1.2	2.6	0.6	5.4	3.9	2.3	1.6	4.8	6.9	2.1	3.7	3.6	3.7	4.5
STD ERR OF P	1.7	3.0	2.6	3.9	3.6	2.2	1.9	2.8	1.9	5.7	4.1	3.0	2.4	4.8	7.6	2.6	3.9	3.5	3.8	5.0
AGE: 13																				
DELTA-P	40.6	-2.0	10.4*	1.1	-9.6*	-6.0*	5.8*	-2.4	-0.7	7.1	3.2	0.3	-2.2	4.5	11.6*	-3.5	1.5	-4.9	3.2	-3.3
STD ERR OF DP		2.8	2.5	2.1	2.4	1.3	1.3	3.0	0.6	4.8	4.0	1.5	1.6	2.5	3.6	2.6	3.2	4.8	3.8	3.3
STD ERR OF P	1.4	3.2	2.9	2.4	2.7	1.8	2.0	3.1	1.6	5.1	4.5	2.1	2.0	2.5	3.4	3.3	3.3	5.2	4.0	3.3
AGE: 17																				
DELTA-P	26.9	6.6*	4.0	-0.8	-8.2*	-3.7*	3.8*	14.8*	-2.7*	13.7*	10.3*	-0.2	-5.0*	15.7*	9.0	-1.7	2.1	-4.9	-0.6	-13.3*
STD ERR OF DP		2.1	2.7	2.4	1.8	1.2	1.1	3.5	0.6	6.2	3.2	1.6	1.3	4.1	6.1	1.8	3.1	3.7	2.7	3.0
STD ERR OF P	1.4	2.1	3.1	3.1	1.8	1.9	1.6	3.7	1.4	6.9	3.2	1.7	1.8	4.4	6.6	2.2	3.1	3.9	2.7	3.3

	NATION	REGION SOUTH EAST	REGION WEST	REGION CENTRAL	REGION NORTH EAST	SEX MALE	SEX FEMALE	RACE BLACK	RACE WHITE	PARENTAL EDUCATION NO HS	PARENTAL EDUCATION SOME HS	PARENTAL EDUCATION GRAD HS	PARENTAL EDUCATION POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	SIZE-AND-TYPE OF COMMUNITY EXTREME RURAL	SIZE-AND-TYPE OF COMMUNITY SMALL PLACES	SIZE-AND-TYPE OF COMMUNITY MEDIUM CITY	SIZE-AND-TYPE OF COMMUNITY MAIN BIG CTY	SIZE-AND-TYPE OF COMMUNITY URBAN FRINGE	SIZE-AND-TYPE OF COMMUNITY HIGH METRO

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part 0.

RESPONSE: 39 AGE: Ad TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	20.5	-1.8	1.9	5.3*	-6.8#	-3.6#	3.4#	9.3#	-1.6#	4.3	5.8*	-4.0*	-4.6#	3.5	1.9	1.0	-2.3	4.6	2.7	-10.3#
STD ERR OF DP		2.4	2.3	2.5	1.9	1.1	1.1	3.7	0.6	2.6	2.4	2.0	1.5	3.9	3.9	1.9	3.0	6.2	5.2	2.7
STD ERR OF P	1.4	2.6	2.7	3.2	1.9	1.7	1.8	4.1	1.4	3.4	2.7	1.8	1.9	4.2	4.0	2.3	3.0	6.5	5.7	2.4

EXERCISE: UK12

Part C1.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	40.8	-2.7	4.9	1.7	-3.6	2.1	-2.2	-1.6	0.8	-6.4	-12.2*	-0.1	4.4#	-9.2	-3.6	1.7	2.2	-5.7	-0.3	8.0*
STD ERR OF DP		2.4	2.7	2.9	2.7	1.1	1.2	2.8	0.6	4.5	5.6	2.3	1.7	5.2	4.4	2.0	4.4	3.6	3.7	3.7
P-VALUE	40.8	38.1	45.7	42.4	37.1	42.9	38.5	39.2	41.6	34.4	28.6	40.7	45.2	31.6	37.2	42.5	43.0	35.1	40.5	48.8
STD ERR OF P	1.6	2.5	3.0	3.7	3.1	1.9	2.1	2.7	1.9	5.1	5.7	2.5	2.5	5.1	4.9	2.5	4.8	3.7	4.0	3.9
AGE: 13																				
DELTA-P	58.3	-4.9	-3.8	2.7	5.2	1.1	-1.1	-13.8#	3.4#	-20.5#	-7.5	1.9	7.9#	-12.0*	-10.9	0.6	1.4	-1.6	2.2	11.4#
STD ERR OF DP		3.6	2.5	2.7	3.0	1.4	1.4	3.3	0.7	5.3	4.2	2.0	1.8	5.5	5.9	2.4	2.8	4.5	4.3	2.8
P-VALUE	58.3	53.5	54.6	61.0	63.5	59.5	57.2	44.5	61.7	37.8	50.8	60.3	66.2	46.4	47.4	58.9	59.7	56.7	60.5	69.7
STD ERR OF P	1.7	4.2	2.6	3.3	3.4	2.1	2.3	3.4	1.8	5.4	4.5	2.7	2.1	5.5	6.3	2.9	2.7	5.1	4.7	2.8
AGE: 17																				
DELTA-P	72.1	-9.0#	2.3	-0.6	6.0*	4.8#	-4.6#	-18.3#	2.5#	-12.0#	-17.5#	-1.2	8.7#	-10.0#	-8.6	3.2	-3.2	-5.6	2.3	9.8#
STD ERR OF DP		2.5	2.1	2.4	2.5	1.0	1.0	2.9	0.5	4.8	3.7	1.8	1.2	3.0	4.8	1.8	3.6	4.3	3.2	3.0
P-VALUE	72.1	63.1	74.4	71.5	78.0	76.9	67.5	53.7	74.5	60.0	54.6	70.9	80.8	62.1	63.5	75.3	68.9	66.5	74.4	81.9
STD ERR OF P	1.4	2.6	2.1	3.0	3.0	1.6	1.8	2.7	1.6	5.0	4.1	2.3	1.6	2.7	5.1	2.3	3.7	4.7	3.6	3.2
AGE: Ad																				
DELTA-P	71.0	-6.1*	5.4*	0.2	-1.0	4.5#	-4.2#	-23.7#	3.2#	-11.8#	-2.5	5.4#	10.9#	-12.9#	-12.1#	-0.9	3.7	-3.6	6.4*	11.0#
STD ERR OF DP		2.7	2.4	2.0	2.3	1.2	1.1	3.5	0.6	2.8	2.7	1.5	2.3	4.9	4.4	1.8	3.8	5.0	2.8	3.3
P-VALUE	71.0	64.8	76.3	71.2	69.9	75.5	66.8	47.3	74.2	59.1	68.4	76.3	81.8	58.1	58.9	70.1	74.6	67.4	77.4	82.0
STD ERR OF P	1.4	3.1	3.0	2.3	2.5	1.8	1.7	3.6	1.4	3.2	3.0	2.1	2.6	5.2	4.3	2.4	4.2	5.1	2.9	3.3

EXERCISE: UK12

Part C2.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	88.6	-3.6*	-3.9*	5.2#	1.0	0.5	-0.5	-4.5*	0.9*	-2.6	-3.9	-3.1*	1.8	-3.5	-0.1	-1.6	-0.7	4.2#	2.6	1.0
STD ERR OF DP		1.5	1.9	1.3	1.8	0.7	0.8	1.8	0.4	3.1	3.4	1.5	1.0	2.8	2.5	1.4	2.5	1.5	2.3	2.1
P-VALUE	88.6	85.0	84.7	93.7	89.6	89.1	88.1	84.1	89.4	86.0	84.7	85.4	90.4	85.1	88.5	86.9	87.9	92.8	91.2	89.5
STD ERR OF P	0.9	1.7	2.2	1.4	2.2	1.1	1.3	1.9	1.1	3.3	3.4	1.8	1.2	3.0	2.6	1.8	2.8	1.5	2.3	2.2
AGE: 13																				
DELTA-P	93.7	-3.0	-0.9	1.3	2.2*	0.0	0.0	-5.7#	1.0#	-3.4	-3.2	-0.7	2.6#	0.9	-1.7	-0.5	-0.1	-3.5	0.8	4.4#
STD ERR OF DP		1.5	1.1	1.0	1.0	0.6	0.6	1.7	0.4	2.3	2.1	1.1	0.8	1.7	1.8	0.8	1.4	2.0	1.9	1.3
P-VALUE	93.7	90.8	92.8	95.1	95.9	93.7	93.7	88.0	94.8	90.3	90.5	93.0	96.4	94.6	92.0	93.2	93.7	90.3	94.5	98.2
STD ERR OF P	0.7	1.8	1.1	1.2	1.0	0.9	0.9	1.9	0.8	2.5	2.4	1.1	0.9	1.6	1.9	1.1	1.5	2.2	2.2	1.1
AGE: 17																				
DELTA-P	96.8	-0.5	-1.0	1.0	0.2	0.6	-0.6	-3.0	0.5*	-4.8	-3.3	1.5#	1.2#	0.1	2.1#	-0.7	0.6	-2.0	-0.4	1.7
STD ERR OF DP		0.7	0.9	0.6	0.8	0.5	0.4	1.7	0.3	2.6	1.8	0.5	0.5	1.2	0.6	0.6	1.1	1.9	1.1	0.9
P-VALUE	96.8	96.3	95.8	97.8	97.0	97.4	96.2	93.8	97.3	92.1	93.5	98.3	98.0	96.9	98.9	96.1	97.4	94.8	96.5	98.5
STD ERR OF P	0.4	0.7	1.1	0.7	0.9	0.6	0.7	1.9	0.4	2.9	1.9	0.5	0.5	1.3	0.5	0.8	1.2	2.0	1.1	0.9
AGE: Ad																				
DELTA-P	97.1	-1.1	-1.1	1.2	0.7	-0.4	0.4	-4.7#	0.6*	-0.5	-1.3	-0.4	2.3#	-1.7	1.5	0.6	-0.3	0.7	-2.8	1.2
STD ERR OF DP		0.8	0.8	0.6	0.9	0.5	0.4	1.8	0.2	0.9	1.5	0.9	0.5	1.7	0.9	0.5	1.1	1.4	1.7	1.2
P-VALUE	97.1	96.0	96.0	98.3	97.7	96.7	97.5	92.4	97.7	96.6	95.8	96.7	99.4	95.4	98.6	97.7	96.8	97.7	94.3	98.3
STD ERR OF P	0.5	0.9	0.9	0.7	1.1	0.7	0.6	1.8	0.5	0.9	1.5	1.2	0.4	1.7	0.8	0.7	1.3	1.3	1.9	1.2

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part C3.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	86.2	-5.1#	-0.8	0.4	5.3#	-0.5	0.5	-8.2#	1.4#	-6.1	-5.4	-3.8#	1.5	-5.1	1.1	-2.1	-1.5	2.3	1.5	6.2#
STD ERR OF DP		1.9	1.8	1.8	1.4	0.9	0.9	2.1	0.5	3.3	3.5	1.3	1.0	2.6	3.1	1.2	2.3	2.8	1.9	1.7
P-VALUE	86.2	81.2	85.4	86.6	91.5	85.8	86.7	78.0	87.7	80.2	80.8	82.5	87.7	81.2	87.3	84.1	84.7	88.5	87.7	92.4
STD ERR OF P	1.0	2.3	2.0	2.3	1.2	1.7	1.0	2.5	1.1	3.4	3.8	1.9	1.4	2.9	3.5	1.6	2.5	3.2	1.9	1.4
AGE: 13																				
DELTA-P	90.9	-5.8*	2.7	0.9	1.7	-0.9	0.9	-10.6#	1.6#	-7.0*	-5.6	2.3*	2.9#	-2.5	-1.3	-2.0	-0.5	1.4	3.1	3.2
STD ERR OF DP		2.8	1.5	1.4	1.6	1.0	1.0	2.4	0.5	3.2	5.4	1.1	1.1	2.8	2.4	1.8	2.6	2.1	1.6	2.2
P-VALUE	90.9	85.1	93.6	91.8	92.5	90.0	91.7	80.3	92.5	83.9	85.3	93.1	93.8	88.4	89.6	88.9	90.4	92.2	93.9	94.1
STD ERR OF P	1.1	3.7	1.3	1.3	1.5	1.8	1.0	2.6	1.2	3.3	6.2	1.2	1.0	2.8	2.3	2.6	2.8	2.1	1.7	2.2
AGE: 17																				
DELTA-P	95.6	-0.3	-1.4	0.7	0.7	1.2*	-1.1*	-4.9#	0.8#	-4.8	-4.7*	0.9	1.2#	-2.8	-0.9	1.2	-0.2	-2.5	-0.9	2.6#
STD ERR OF DP		0.8	0.9	0.7	1.0	0.6	0.5	1.9	0.3	2.7	2.0	0.7	0.5	1.7	1.8	0.7	1.2	2.5	1.6	1.0
P-VALUE	95.6	95.3	94.2	96.3	96.3	96.7	94.5	90.7	96.4	90.8	90.9	96.5	96.8	92.8	94.7	96.8	95.4	93.1	94.7	98.2
STD ERR OF P	0.5	0.9	1.1	0.9	1.2	0.6	0.8	2.1	0.5	2.9	2.1	0.8	0.7	1.7	1.8	0.7	1.3	2.7	1.7	0.9
AGE: Ad																				
DELTA-P	95.5	-1.5	1.9*	1.0	-2.1	0.2	-0.2	-10.3#	1.1#	-1.1	-1.3	1.2	1.2	-3.6	1.5	1.8#	-6.8#	1.1	1.2	1.4
STD ERR OF DP		1.1	0.9	0.9	1.6	0.7	0.6	2.9	0.4	1.1	1.6	1.0	1.5	2.3	1.5	0.7	2.7	1.9	1.6	1.1
P-VALUE	95.5	94.0	97.4	96.5	93.4	95.7	95.3	85.3	96.6	94.8	94.2	96.7	96.7	91.9	97.0	97.3	88.7	96.6	96.7	96.9
STD ERR OF P	0.7	1.2	0.9	1.0	2.0	0.9	1.0	3.1	0.7	1.2	1.6	1.1	1.8	2.4	1.4	0.6	3.1	2.0	1.7	1.0

EXERCISE: UK12

Part C4.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTHEAST	WEST	CENTRAL	NORTHEAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
DELTA-P	75.3	-2.1	-3.5	1.4	3.5	-3.5#	3.7#	2.9	-0.9	0.4	-2.5	-1.2	-1.3	3.2	0.1	-4.6*	0.1	7.7#	1.7	1.3
STD ERR OF DP		2.8	2.2	2.1	1.8	1.1	1.2	2.4	0.5	6.8	4.9	2.1	1.5	3.0	4.0	2.0	3.0	2.5	2.3	3.4
P-VALUE	75.3	73.3	71.9	76.7	78.8	71.9	79.0	78.2	74.5	75.7	72.8	74.2	74.1	78.5	75.4	70.7	75.4	83.1	77.1	76.6
STD ERR OF P	1.3	3.5	2.4	2.5	1.6	1.8	1.7	2.2	1.6	7.8	5.1	2.6	1.7	2.9	4.2	2.7	3.1	2.4	2.4	3.5
AGE: 13																				
DELTA-P	70.4	-6.0*	3.3	0.9	1.3	0.3	-0.3	-9.5#	1.6*	-11.1#	-9.6*	2.1	3.2	-3.2	-6.0	-3.1	2.0	-5.5	5.2	11.4#
STD ERR OF DP		3.0	2.4	2.7	3.5	1.3	1.3	2.9	0.7	3.8	4.8	1.7	1.7	4.1	7.8	2.6	3.0	4.4	3.3	2.4
P-VALUE	70.4	64.4	73.7	71.4	71.7	70.8	70.1	60.9	72.0	59.4	60.8	72.5	73.7	67.2	64.4	67.4	72.4	64.9	75.6	81.8
STD ERR OF P	1.7	3.4	2.5	3.3	4.1	2.0	2.2	3.2	1.9	3.9	5.6	2.2	2.1	4.1	8.5	3.4	2.7	4.7	3.4	2.2
AGE: 17																				
DELTA-P	81.4	-6.5#	0.8	-0.1	4.6#	2.6#	-2.5#	-19.0#	2.8#	-10.3*	-13.3#	-3.1*	8.1#	-5.7	-5.9	-0.8	0.8	-4.3	3.4	9.3#
STD ERR OF DP		2.3	2.0	1.8	1.6	0.9	0.8	2.9	0.5	4.7	3.1	1.4	1.0	3.3	4.1	1.4	2.6	3.0	1.9	2.2
P-VALUE	81.4	75.0	82.3	81.4	86.0	84.0	79.0	62.5	84.2	71.1	68.1	78.3	89.5	75.8	75.5	80.6	82.2	77.1	84.8	90.8
STD ERR OF P	1.1	2.6	2.3	2.3	1.5	1.3	1.5	3.4	1.0	5.2	3.2	1.8	1.2	3.5	4.4	1.9	2.8	3.0	2.1	2.2
AGE: Ad																				
DELTA-P	80.7	-3.7	1.3	1.6	-0.2	0.8	-0.7	-15.5#	2.6#	-2.1	-4.6*	-0.3	7.1#	-8.4	-4.8	-0.8	1.2	1.5	3.9	5.3
STD ERR OF DP		2.6	2.2	2.7	2.2	1.2	1.1	4.5	0.7	2.0	2.0	1.9	2.0	4.7	4.1	2.0	3.0	4.3	3.2	3.1
P-VALUE	80.7	77.0	81.9	82.3	80.4	81.4	80.0	65.1	83.2	78.6	76.0	80.3	87.8	72.3	75.9	79.8	81.9	82.1	84.6	86.0
STD ERR OF P	1.5	2.8	2.5	3.5	2.2	1.9	1.7	4.9	1.4	2.2	2.3	2.8	1.9	5.0	4.2	2.9	3.1	4.4	3.2	3.1

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part C5.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	39.2	0.3	0.1	3.2	-4.1	1.3	-1.4	2.1	-0.1	-3.2	2.6	2.1	4.8*	-4.5	-6.1	-2.3	2.3	-0.6	4.7	7.5
STD ERR OF DP		2.4	2.5	2.6	2.7	1.2	1.3	3.2	0.7	4.8	5.4	2.1	1.5	4.9	3.5	2.1	3.2	4.3	4.1	4.0
P-VALUE	39.2	39.5	39.3	42.3	35.1	40.5	37.8	41.3	39.1	36.0	41.8	41.2	44.0	34.7	33.1	36.9	41.5	38.6	43.8	46.6
STD ERR OF P	1.4	2.6	2.7	3.1	3.1	2.0	1.8	3.0	1.8	5.0	5.6	2.4	2.3	4.7	3.6	2.7	3.5	4.5	4.3	4.3
AGE: 13																				
DELTA-P	59.8	-5.7	-6.8*	5.7*	5.2	2.7	-2.7	-12.0*	3.3*	-11.4*	-10.5*	0.2	6.8*	-11.3*	-4.5	-2.6	-0.6	-5.2	5.0	16.3*
STD ERR OF DP		4.0	3.2	2.6	3.7	1.5	1.5	3.1	0.7	4.8	4.6	1.7	1.7	5.5	5.2	2.8	3.4	4.2	4.1	2.7
P-VALUE	59.8	54.1	53.0	65.5	65.0	62.5	57.1	47.8	63.1	48.4	49.3	60.0	66.6	48.5	55.3	57.2	59.2	54.6	64.8	76.0
STD ERR OF P	1.8	4.7	3.6	3.0	4.2	2.3	2.4	3.1	2.0	5.1	4.8	2.7	2.2	5.8	5.9	3.7	3.1	4.3	4.3	2.5
AGE: 17																				
DELTA-P	74.0	-9.9*	2.8	0.8	4.7*	5.0*	-4.8*	-22.2*	3.6*	-27.0*	-17.4*	-2.4	12.1*	-17.0*	-13.6*	0.6	3.1	3.8	2.8	12.8*
STD ERR OF DP		2.7	2.1	2.2	2.1	1.2	1.1	3.4	0.7	5.1	3.6	1.6	1.4	4.2	5.9	1.9	3.1	2.7	2.2	2.8
P-VALUE	74.0	64.1	76.8	74.8	78.7	79.1	69.2	51.8	77.6	47.0	56.6	71.6	86.1	57.0	60.4	74.6	77.1	77.9	76.8	86.8
STD ERR OF P	1.3	3.3	2.2	2.7	2.2	1.9	1.7	3.7	1.4	5.7	3.8	2.2	1.4	4.6	6.4	2.1	3.2	2.6	2.5	2.9
AGE: Ad																				
DELTA-P	72.1	-6.0*	3.1	0.7	0.8	6.7*	-6.1*	-27.6*	4.1*	-11.7*	-1.5	4.6*	11.3*	-16.7*	-14.8*	-1.6	6.7*	2.6	4.5	12.6*
STD ERR OF DP		2.8	2.6	2.3	2.1	1.4	1.4	3.6	0.7	2.8	2.7	2.1	2.1	4.6	4.1	1.9	3.2	4.1	4.3	3.1
P-VALUE	72.1	66.1	75.1	72.8	72.9	78.7	65.9	44.5	76.2	60.4	70.5	76.7	83.4	55.4	57.2	70.4	78.7	74.6	76.6	84.7
STD ERR OF P	1.4	3.1	3.2	2.7	2.1	1.8	2.0	3.9	1.3	3.1	2.9	2.6	2.5	5.0	3.9	2.5	3.6	4.1	4.6	3.1

EXERCISE: UK12

Part C6.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	32.0	-3.3	3.4	1.2	-1.1	1.1	-1.2	-2.2	0.7	-6.3	-2.5	1.4	3.0	-3.9	-3.9	-2.4	-2.7	-0.5	5.1	10.5*
STD ERR OF DP		2.3	2.4	2.6	2.8	1.2	1.3	2.4	0.5	5.0	4.8	1.7	1.6	4.5	3.9	2.2	2.6	3.2	3.2	4.0
P-VALUE	32.0	28.7	35.4	33.2	30.9	33.1	30.8	29.8	32.7	25.7	29.5	33.4	35.0	28.1	28.1	29.6	29.3	31.5	37.1	42.5
STD ERR OF P	1.5	2.5	2.6	3.2	3.4	2.2	1.7	2.9	1.6	5.3	5.1	2.3	2.2	4.6	4.2	2.9	2.5	3.5	3.2	4.3
AGE: 13																				
DELTA-P	47.5	-7.6*	-2.1	3.0	5.7*	0.8	-0.8	-13.8*	3.6*	-19.7*	-10.5*	1.4	7.8*	-10.9*	-10.4	-0.9	0.1	-1.7	4.9	12.6*
STD ERR OF DP		2.7	2.7	2.4	2.5	1.2	1.2	2.8	0.7	4.9	4.3	2.1	1.7	5.3	5.4	2.6	3.2	4.2	3.8	2.6
P-VALUE	47.5	39.8	45.4	50.5	53.2	48.3	46.7	33.6	51.1	27.7	36.9	48.9	55.3	36.6	37.1	46.5	47.5	45.8	52.3	60.1
STD ERR OF P	1.5	3.0	3.1	3.0	2.7	1.9	2.0	3.2	1.5	4.7	4.3	2.8	2.1	5.6	5.5	2.8	3.2	4.8	4.0	2.9
AGE: 17																				
DELTA-P	63.9	-10.4*	1.4	2.2	4.7*	5.4*	-5.2*	-26.5*	3.8*	-13.5*	-16.1*	-4.1*	10.6*	-10.1	[illegible]	2.5	-0.8	-11.1*	3.0	12.6*
STD ERR OF DP		2.6	2.4	2.5	2.3	1.2	1.2	3.2	0.7	5.3	3.4	1.7	1.3	4.0	[illegible]	1.6	3.8	3.9	3.0	3.7
P-VALUE	63.9	53.5	65.2	66.0	68.6	69.3	58.7	37.3	67.7	50.3	47.8	59.8	74.5	53.7	55.1	66.4	63.1	52.8	66.8	76.5
STD ERR OF P	1.5	2.9	2.6	3.3	2.5	1.7	2.0	3.3	1.5	5.7	3.7	2.1	1.8	4.0	5.4	2.0	4.2	4.1	3.4	4.0
AGE: Ad																				
DELTA-P	63.0	-5.1	4.4	1.0	-1.7	6.4*	-5.9*	-23.4*	3.7*	-10.4*	-5.0	3.3	13.8*	-16.0*	-14.7*	-1.1	7.7*	-1.2	8.1*	8.4*
STD ERR OF DP		2.9	2.5	2.2	2.1	1.3	1.3	3.7	0.6	3.1	3.0	1.8	2.1	4.6	4.1	2.0	3.6	5.8	2.5	3.1
P-VALUE	63.0	57.9	67.3	64.0	61.3	69.4	57.1	39.5	66.6	52.6	58.0	66.3	76.8	47.0	48.3	61.9	70.6	61.8	71.1	71.4
STD ERR OF P	1.4	3.2	3.1	2.7	2.1	2.0	1.9	3.6	1.5	3.4	3.0	2.5	2.7	4.6	4.0	2.7	4.1	6.0	2.7	3.1

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part C7.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	42.6	-2.0	3.7	2.8	-4.6	2.3*	-2.4*	-2.2	0.9	-4.5	1.7	-1.9	6.5#	-4.4	-4.3	2.1	-1.1	-4.8	0.5	6.1
STD ERR OF DP		2.3	3.1	2.9	2.7	1.1	1.1	3.1	0.7	5.2	5.0	2.5	1.5	5.1	4.0	2.2	4.7	3.1	4.1	3.9
P-VALUE	42.6	40.6	46.3	45.4	38.0	44.9	40.2	40.4	43.5	38.1	44.3	40.7	49.1	38.2	38.3	44.7	41.5	37.8	43.1	48.6
STD ERR OF P	1.6	2.3	3.6	3.6	3.0	2.0	1.8	2.9	2.0	5.8	5.1	2.9	2.3	4.9	4.3	3.1	5.2	3.0	4.1	4.1
AGE: 13																				
DELTA-P	66.5	-5.0	-4.9	4.4	4.3	3.4#	-3.3#	-14.5#	3.4#	-9.0*	-8.5	0.1	6.4#	-13.2*	-6.7	1.3	-0.5	-4.7	3.0	11.1#
STD ERR OF DP		3.7	2.9	2.6	2.4	1.2	1.2	3.0	0.6	4.3	4.3	1.9	1.5	5.6	4.7	2.5	4.6	4.1	3.8	3.1
P-VALUE	66.5	61.5	61.6	70.8	70.8	69.8	63.2	52.0	69.9	57.5	58.0	66.6	72.9	53.3	59.8	67.8	66.0	61.8	69.5	77.6
STD ERR OF P	1.6	4.3	3.3	3.2	2.3	1.8	2.2	3.0	1.7	4.5	4.4	2.4	2.4	5.8	5.0	2.9	4.7	4.5	4.1	3.3
AGE: 17																				
DELTA-P	79.5	-10.7#	1.9	3.1	3.4	5.6#	-5.4#	-22.7#	3.7#	-19.5#	-21.1#	-0.8	10.6#	-13.6#	-0.6	-0.6	0.9	-3.2	3.4	10.3#
STD ERR OF DP		2.0	1.5	1.7	1.7	1.0	0.9	2.9	0.6	5.8	3.6	1.3	1.3	3.7	3.2	1.5	2.9	3.1	1.9	3.2
P-VALUE	79.5	68.8	81.4	82.6	82.9	85.1	74.1	56.8	83.2	60.0	58.4	78.7	90.1	65.9	78.9	78.9	80.4	76.3	82.9	89.8
STD ERR OF P	1.1	2.3	1.5	2.2	1.9	1.2	1.6	3.0	1.1	6.1	3.9	1.8	1.2	4.0	3.3	1.6	3.1	3.4	2.1	3.3
AGE: Ad																				
DELTA-P	78.9	-3.7	3.7*	-0.3	-0.7	4.9#	-4.5#	-19.3#	2.8#	-11.4#	0.7	3.8*	9.8#	-14.0#	-9.5*	-1.7	3.5	-0.7	7.8#	10.0#
STD ERR OF DP		2.0	1.8	1.7	2.0	1.1	1.1	3.2	0.5	2.2	2.4	1.6	1.7	3.4	4.1	1.5	3.1	4.1	2.1	2.2
P-VALUE	78.9	75.2	82.6	78.6	78.2	83.8	74.4	59.6	81.7	67.5	79.5	82.7	88.7	64.8	69.4	77.2	82.4	78.2	86.6	88.9
STD ERR OF P	1.1	2.1	2.2	1.9	2.3	1.4	1.7	3.1	1.1	2.4	2.4	1.9	2.2	3.7	4.1	1.9	3.4	4.2	2.4	2.2

EXERCISE: UK12

Part C8.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	88.4	-2.8	-0.4	1.0	1.9	-1.0	1.1	-4.3#	0.8*	-6.1	-0.9	-4.2#	1.7	-3.0	1.0	-3.5*	1.3	2.2	2.6	4.8#
STD ERR OF DP		1.7	1.7	1.8	1.5	0.8	0.9	1.5	0.3	3.2	2.7	1.3	1.0	2.2	2.1	1.5	2.4	2.1	1.8	1.7
P-VALUE	88.4	85.6	88.0	89.4	90.3	87.4	89.5	84.1	89.1	82.3	87.5	84.2	90.1	85.4	89.4	84.9	89.7	90.6	91.0	93.2
STD ERR OF P	1.0	1.9	1.8	2.4	1.6	1.6	1.0	1.8	1.1	3.5	2.8	1.9	1.3	2.2	2.3	2.2	2.5	2.1	1.7	1.3
AGE: 13																				
DELTA-P	91.6	-5.0	3.3*	1.1	0.1	-0.3	0.3	-8.8#	1.1*	-5.7	-5.9	2.1	2.5*	-3.0	-1.0	-1.4	0.6	1.7	2.2	1.5
STD ERR OF DP		3.2	1.5	1.3	2.0	0.9	0.9	2.5	0.5	3.1	5.4	1.3	1.2	2.6	2.5	1.9	2.1	2.1	2.0	2.9
P-VALUE	91.6	86.5	94.9	92.7	91.7	91.2	91.9	82.8	92.7	85.8	85.6	93.6	94.1	88.6	90.6	90.1	92.2	93.3	93.7	93.0
STD ERR OF P	1.2	4.1	1.2	1.0	2.2	1.8	1.1	2.6	1.3	3.8	6.3	1.3	1.0	2.7	2.8	2.7	2.1	2.0	1.8	3.1
AGE: 17																				
DELTA-P	95.6	-0.5	-1.6	0.7	1.1	0.2	-0.2	-5.5#	1.0#	-7.0*	-4.0*	1.0	1.5#	-1.4	-0.2	0.7	-0.9	-2.4	-0.6	2.6#
STD ERR OF DP		1.0	0.9	0.9	0.9	0.5	0.4	2.0	0.3	2.9	1.8	0.7	0.5	1.8	1.5	0.7	1.5	2.2	1.6	1.0
P-VALUE	95.6	95.2	94.0	96.3	96.7	95.8	95.4	90.1	96.6	88.6	91.6	96.6	97.2	94.2	95.4	96.4	94.7	93.2	95.0	98.2
STD ERR OF P	0.6	1.0	1.1	1.2	1.0	0.7	0.7	2.2	0.6	3.2	1.9	0.8	0.6	1.9	1.5	0.8	1.6	2.4	1.8	0.9
AGE: Ad																				
DELTA-P	95.5	-1.1	-1.0	2.7#	-1.1	-0.9	0.8	-3.7	0.3	-3.6*	-0.1	1.6	1.9	-1.6	1.3	1.9*	-9.8*	1.6	1.2	2.4
STD ERR OF DP		1.2	1.6	0.9	1.6	0.9	0.8	2.4	0.3	1.8	1.5	1.1	1.3	2.4	1.5	0.8	4.9	1.6	1.6	1.3
P-VALUE	95.5	94.4	94.5	98.2	94.4	94.7	96.3	91.8	95.8	91.9	95.4	97.1	97.4	93.9	96.8	97.4	85.8	97.1	96.8	97.9
STD ERR OF P	0.8	1.2	2.1	0.6	1.9	1.4	0.9	2.5	0.8	2.3	1.6	1.0	1.5	2.5	1.4	0.6	5.5	1.5	1.6	1.0

EXERCISE: UK12

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

Part C9.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	37.3	-3.9*	3.6	3.2	-3.0	1.9	-2.0	-0.9	0.8	-4.2	-1.2	-1.4	5.0#	-5.1	-7.8*	-1.9	1.5	-1.3	2.9	11.5#
STD ERR OF DP		1.8	2.7	2.6	3.1	1.1	1.2	2.4	0.5	5.6	5.4	2.1	1.5	4.8	3.8	2.3	4.0	3.7	3.5	4.1
P-VALUE	37.3	33.4	41.0	40.5	34.4	39.3	35.3	36.5	38.1	33.2	36.2	36.0	42.3	32.3	29.5	35.5	38.9	36.1	40.2	48.9
STD ERR OF P	1.5	1.5	3.0	3.2	3.8	2.1	1.7	2.2	1.8	5.9	5.4	2.6	2.2	4.6	3.8	3.0	4.3	3.9	3.8	4.4
AGE: 13																				
DELTA-P	56.8	-7.9*	-2.1	3.1	5.9	0.3	-0.3	-15.2#	3.5#	[illegible]	-13.5#	4.1*	7.0#	-10.7*	-14.3*	-1.3	1.4	0.8	4.7	13.1#
STD ERR OF DP		3.5	3.2	2.7	3.0	1.2	1.2	2.9	0.6	[illegible]	4.2	1.8	1.6	5.2	6.0	2.8	3.8	5.0	3.7	3.0
P-VALUE	56.8	48.9	54.7	59.9	62.7	57.1	56.5	41.5	60.3	[illegible]	43.3	60.9	63.8	46.0	42.5	55.4	58.2	57.5	61.4	69.8
STD ERR OF P	1.8	4.1	3.6	3.3	3.3	2.0	2.3	3.1	1.8	[illegible]	4.6	2.7	2.0	5.3	6.3	3.5	4.1	5.4	4.0	2.8
AGE: 17																				
DELTA-P	70.3	-9.2#	3.2	-0.5	5.1*	4.7#	-4.5#	-24.8#	3.6#	-20.6#	-14.9#	-1.7	10.1#	-14.9#	-17.0#	3.9*	4.6	-6.5	1.3	11.7#
STD ERR OF DP		2.8	2.1	2.6	2.5	1.3	1.2	3.3	0.7	6.5	3.8	1.9	1.3	3.8	5.1	1.9	3.5	3.7	2.9	2.8
P-VALUE	70.3	61.1	73.5	69.9	75.5	75.0	65.8	45.5	74.0	49.7	55.4	68.6	80.4	55.4	53.3	74.2	74.9	63.8	71.6	82.0
STD ERR OF P	1.5	3.1	2.1	3.4	2.8	2.0	1.9	3.3	1.6	6.9	4.3	2.2	1.6	3.7	5.8	2.3	3.5	3.9	3.3	2.9
AGE: Ad																				
DELTA-P	67.6	-5.5	1.3	0.9	2.1	5.5#	-5.0#	-27.0#	4.0#	-13.1#	-1.9	5.7#	11.8#	-13.0#	-10.7*	0.1	-2.1	0.6	6.3	10.7#
STD ERR OF DP		3.1	1.8	2.4	1.8	1.4	1.3	3.4	0.7	3.0	2.8	2.1	2.3	4.8	4.4	2.1	5.0	4.7	3.6	2.7
P-VALUE	67.6	62.1	68.9	68.5	69.7	73.1	62.6	40.6	71.6	54.5	65.7	73.3	79.4	54.6	56.9	67.7	65.5	68.2	73.9	78.3
STD ERR OF P	1.3	3.6	1.9	3.1	1.7	1.7	2.0	3.8	1.2	3.0	3.1	2.6	2.6	5.2	4.5	2.5	5.2	4.7	3.9	2.5

EXERCISE: UK12

Part C10.

RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	89.5	-2.0	-3.6*	3.3*	1.3	0.3	-0.3	-2.5	0.6	-2.9	-8.5*	-2.3	2.3#	-2.0	2.4	-3.1*	1.8	2.6	2.1	1.6
STD ERR OF DP		1.3	1.7	1.5	1.5	0.7	0.7	1.6	0.4	3.8	3.8	1.3	0.9	2.5	2.1	1.4	1.8	1.6	2.3	2.0
P-VALUE	89.5	87.5	85.9	92.8	90.8	89.8	89.2	87.0	90.1	86.6	81.0	87.3	91.8	87.5	91.9	86.4	91.3	92.1	91.6	91.1
STD ERR OF P	0.9	1.3	1.9	1.9	1.7	1.1	1.1	1.5	1.1	3.9	3.9	1.6	1.1	2.5	2.2	1.9	1.7	1.6	2.4	2.1
AGE: 13																				
DELTA-P	93.8	-3.4	0.3	2.3*	0.1	-0.1	0.1	-1.2	0.2	-1.8	-7.4	0.3	2.0	-0.7	-0.1	-1.9	1.2	0.7	2.6	0.5
STD ERR OF DP		2.4	1.2	1.0	1.7	1.0	1.0	1.6	0.3	2.2	5.7	1.2	1.0	2.2	1.5	1.4	1.5	2.0	1.4	2.8
P-VALUE	93.8	90.4	94.1	96.1	93.9	93.7	93.9	92.6	94.1	92.0	86.5	94.2	95.8	93.1	93.8	91.9	95.1	94.5	96.5	94.3
STD ERR OF P	0.9	3.0	1.1	0.7	2.0	1.7	0.9	1.6	1.0	2.1	6.4	1.2	0.9	2.2	1.8	2.0	1.4	1.9	1.3	3.1
AGE: 17																				
DELTA-P	96.7	-0.2	-1.0	0.3	0.8	0.7	-0.7	-3.2*	0.4	-2.5	-4.6*	1.2*	1.1*	-0.8	1.8#	-0.7	-0.1	-0.2	-0.2	1.8
STD ERR OF DP		0.6	0.8	0.7	0.7	0.4	0.4	1.4	0.2	2.0	1.9	0.5	0.5	1.5	0.6	0.6	1.2	1.5	1.1	0.9
P-VALUE	96.7	96.5	95.7	97.0	97.6	97.4	96.1	93.5	97.1	94.2	92.2	97.9	97.8	95.9	98.6	96.1	96.7	96.5	96.5	98.5
STD ERR OF P	0.4	0.6	0.9	0.8	0.8	0.5	0.7	1.5	0.5	2.2	1.9	0.6	0.6	1.5	0.6	0.8	1.3	1.5	1.2	0.9
AGE: Ad																				
DELTA-P	96.5	-1.7	-0.1	1.7*	-0.5	-0.7	0.6	-6.2	0.7	-0.6	-1.7	1.2	1.6*	-7.5*	0.1	1.2	0.8	1.3	0.7	-0.4
STD ERR OF DP		1.6	0.7	0.7	1.0	0.6	0.5	3.2	0.4	0.8	1.5	0.7	0.7	3.5	1.2	0.6	1.3	1.2	0.6	1.4
P-VALUE	96.5	94.8	96.4	98.2	96.0	95.8	97.1	90.3	97.3	95.9	94.8	97.7	98.1	89.0	96.6	97.7	97.3	97.8	97.2	96.1
STD ERR OF P	0.5	2.0	0.6	0.6	1.2	1.0	0.6	3.5	0.5	1.0	1.5	0.8	0.6	3.9	1.2	0.8	1.3	1.1	0.4	1.4

Report #: UK13

NAEP #: K40003-1

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		07-13
National P-value:		
	UK13	9.13

Timing: (in seconds)

UK13	Exercise total:	41

EXERCISE: 0K13

This unreleased exercise dealt with GEOMETRY at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 88 AGE: 17	TEXT: No Response.																			
DELTA-P	2.5	-0.7	0.4	-0.8	1.0	0.6	-0.5	1.0	-0.2	-0.8	0.3	-1.0*	0.3	1.2	-0.8	-0.8	0.7	2.8	0.4	-1.5*
STD ERR OF DP		0.5	0.6	0.5	0.7	0.3	0.3	0.9	0.2	0.9	0.9	0.5	0.4	1.1	0.7	0.4	0.7	2.0	1.1	0.6
STD ERR OF P	0.3	0.4	0.6	0.6	0.9	0.5	0.4	0.9	0.4	0.9	0.9	0.4	0.5	1.1	0.6	0.5	0.7	2.1	1.2	0.6
RESPONSE: 10* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	9.1	-3.7#	-0.9	-1.6	5.5#	1.2	-1.0	-7.2#	1.4#	-7.5#	-5.1#	-2.5#	4.2#	-2.3	-5.4#	1.1	-1.0	-1.6	-0.6	7.4*
STD ERR OF DP		1.5	1.2	1.0	1.4	0.9	0.8	0.8	0.3	1.1	1.2	0.9	0.8	2.0	0.9	1.2	1.5	1.9	1.6	3.4
P-VALUE	9.1	5.5	8.2	7.5	14.6	10.3	8.1	2.0	10.5	1.7	4.0	6.6	13.3	6.9	3.7	10.2	8.1	7.5	8.6	16.5
STD ERR OF P	0.7	1.6	1.4	1.1	1.6	1.1	1.1	0.6	0.8	1.0	1.2	1.1	1.2	1.9	0.6	1.4	1.5	2.0	1.6	3.8
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	19.6	-0.1	-1.3	-0.5	1.9	0.2	-0.2	-0.5	0.3	2.9	3.3	-0.7	-0.7	7.9*	-4.8	-1.4	-2.8	-0.4	3.8	1.4
STD ERR OF DP		1.9	1.4	1.5	1.7	1.0	0.8	2.2	0.4	3.9	3.0	1.4	1.0	3.3	3.5	1.4	2.1	3.0	2.5	2.5
STD ERR OF P	0.9	2.2	1.5	1.8	2.0	1.4	1.2	2.2	1.1	4.2	3.1	1.7	1.3	3.4	3.8	1.7	2.2	3.0	2.7	2.5

Report #: 0K18

NAEP #: K50032-3

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		05-08
National P-value:		
	0K18	28.19

Timing: (in seconds)
0K18 Exercise total: 36

EXERCISE: UK19

This unreleased exercise dealt with GEOMETRY at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	3.1	-1.0	0.1	-0.7	1.2	0.3	-0.2	0.7	-0.3	0.4	-1.4	0.2	-0.1	1.9	1.0	-1.2	-0.4	-0.0	2.4	-0.6
STD ERR OF DP		0.8	0.7	0.7	1.0	0.5	0.4	0.9	0.2	1.1	0.8	0.6	0.5	1.5	1.5	0.6	0.7	1.3	1.9	1.2
STD ERR OF P	0.5	0.9	0.7	0.8	1.2	0.6	0.6	1.0	0.5	1.0	0.8	0.8	0.7	1.6	1.5	0.7	0.7	1.4	2.1	1.3
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	28.2	-6.2	-1.9	2.6	3.9	8.1*	-7.0*	-22.0*	5.1*	-21.6*	-14.6*	-2.3	12.0*	-14.6*	1.4	-2.4	3.0	-8.9*	3.6	14.7*
STD ERR OF DP		3.5	3.3	2.7	2.6	1.1	1.1	2.1	0.8	2.2	2.5	1.8	1.3	2.8	6.3	2.1	3.3	3.3	4.4	4.4
P-VALUE	28.2	22.0	26.3	30.8	32.1	36.3	21.2	6.2	33.3	6.6	13.6	25.9	40.2	13.5	29.6	25.7	31.1	19.2	31.7	42.9
STD ERR OF P	1.7	3.9	3.9	3.2	2.8	2.2	[illegible]	1.6	1.8	2.3	2.7	2.0	2.3	2.8	6.8	2.5	3.4	3.0	4.7	4.8
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	27.1	3.3	2.5	-4.7*	0.3	-7.9*	6.9*	11.4*	-2.3*	16.0*	5.6	-1.0	-5.2*	11.1*	-5.5	0.8	0.7	4.9	-2.4	-7.8*
STD ERR OF DP		2.1	1.9	1.7	2.2	1.3	1.2	3.4	0.7	3.5	3.2	1.3	1.1	3.6	4.4	1.6	2.6	4.6	3.8	2.9
STD ERR OF P	1.2	2.2	2.1	2.0	2.7	1.4	2.0	3.7	1.3	3.7	3.3	1.7	1.4	3.8	4.7	1.7	2.6	4.6	4.0	3.2

Report #: UK15

NAEP #: K51019-12

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		9	13
Package-Exercise:		06-28	07-07
National P-value:			
	UK15	39.93	74.44

Timing: (in seconds)

UK15	Exercise total:	42	43

EXERCISE: NK15

This unreleased exercise dealt with GEOMETRY at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	2.4	0.1	-0.6	-1.0	1.4	-0.3	0.3	2.1	-0.7	-0.4	-1.2	-1.1	-0.7	3.1	-0.6	-1.6#	-1.2	3.2	-0.0	0.1
STD ERR OF DP		1.1	0.6	0.7	1.0	0.3	0.3	1.4	0.4	1.5	0.9	0.6	0.4	2.6	0.6	0.5	0.8	2.1	1.3	1.2
STD ERR OF P	0.5	1.3	0.5	0.8	1.3	0.5	0.6	1.7	0.4	1.4	1.0	0.7	0.6	2.9	0.4	0.3	0.8	2.4	1.5	1.2
AGE: 13																				
DELTA-P	0.4	-0.1	-0.2	0.3	-0.0	0.2	-0.2	0.4	-0.1	0.4	-0.1	0.0	-0.2	0.7	-0.2	0.3	-0.2	-0.2	-0.2	-0.4*
STD ERR OF DP		0.2	0.2	0.5	0.3	0.2	0.2	0.4	0.1	0.7	0.3	0.2	0.1	0.7	0.3	0.4	0.3	0.3	0.3	0.2
STD ERR OF P	0.2	0.2	0.2	0.6	0.2	0.4	0.1	0.4	0.2	0.9	0.3	0.2	0.2	0.7	0.2	0.6	0.2	0.3	0.2	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	39.9	-12.3#	4.1	3.5	4.4*	3.8#	-3.9#	-26.0#	6.0#	-10.0*	-10.8*	3.1	10.1#	-22.7#	-9.7#	-0.5	2.4	-0.7	8.2*	14.3#
STD ERR OF DP		2.7	2.6	2.5	2.1	1.2	1.2	2.3	0.8	4.7	4.5	2.5	1.9	3.5	3.4	2.2	3.4	4.0	3.6	3.6
P-VALUE	39.9	27.6	44.0	43.4	44.4	43.7	36.0	13.9	45.9	29.9	29.1	43.0	50.0	17.3	30.2	39.4	42.4	39.3	48.1	54.3
STD ERR OF P	1.5	3.2	2.8	3.0	2.3	2.1	1.7	1.9	1.5	5.0	4.5	2.9	2.2	3.7	3.4	2.7	3.5	4.4	3.7	3.6
AGE: 13																				
DELTA-P	74.4	-12.8#	3.0	4.1*	4.2	2.6#	-2.5#	-30.3#	5.3#	-16.9#	-14.1#	5.0#	5.1#	-19.5#	-2.8	-0.4	0.5	3.0	2.9	9.2#
STD ERR OF DP		2.6	2.1	2.0	2.7	0.9	0.9	2.9	0.8	3.7	3.3	1.4	1.2	6.2	4.7	2.1	2.8	3.2	3.2	3.3
P-VALUE	74.4	61.6	77.4	78.6	78.6	77.0	71.9	44.1	79.7	57.6	60.3	79.5	79.6	54.9	71.6	74.1	74.9	77.4	77.3	83.6
STD ERR OF P	1.4	3.0	2.2	2.2	3.4	1.6	1.7	2.7	1.3	4.0	3.7	2.1	1.5	6.6	5.1	2.5	3.0	3.5	3.1	3.5
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	4.5	0.6	-1.9*	-2.3#	3.3*	-1.1	1.1	0.6	-0.2	1.5	0.9	-1.3	-1.5*	3.5	1.9	-1.1	0.2	0.0	0.9	-2.5#
STD ERR OF DP		1.1	0.8	0.7	1.4	0.6	0.6	1.4	0.3	2.3	2.3	0.9	0.7	3.0	2.4	0.6	1.3	1.9	1.9	1.0
STD ERR OF P	3.6	1.3	0.6	0.5	1.4	0.9	0.8	1.6	0.7	2.2	2.5	0.8	0.8	3.2	2.7	0.7	1.5	2.0	2.1	0.8
AGE: 13																				
DELTA-P	0.5	0.6	0.1	-0.1	-0.5#	-0.2	0.2	0.6	-0.2	-0.5#	1.0	-0.0	-0.5#	1.7	-0.1	0.0	-0.5#	0.0	-0.3	0.0
STD ERR OF DP		0.3	0.4	0.3	0.2	0.2	0.2	0.5	0.1	0.2	0.8	0.2	0.2	[illegible]	0.4	0.2	0.2	0.4	0.3	0.5
STD ERR OF P	0.2	0.4	0.4	0.3	0.1	0.2	0.3	0.5	0.1	0.0	0.9	0.3	0.0	[illegible]	0.4	0.3	0.0	0.4	0.3	0.5

Report #: UK16

NAEP #: K51021-1234

Content Area: K. GEOMETRY

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

		9	13	17	Adult
Age:					
Package-Exercise:		09-05	12-06	13-05	08-04
National P-value:					
	UK16	23.13	58.97	69.60	81.66

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UK16

This unreleased exercise dealt with GEOMETRY at the level of Objective V.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	6.2	1.3	-0.2	-0.8	-0.2	-1.9#	2.0#	3.9	-1.2#	7.1#	2.2	0.0	-2.5#	2.4	2.0	0.4	2.5	-2.3	-2.4	-2.6
STD ERR OF DP		1.0	1.3	1.2	1.5	0.5	0.5	2.0	0.4	2.8	2.7	1.0	0.6	2.2	2.1	0.8	1.9	1.5	1.3	1.8
STD ERR OF P	0.7	1.0	1.5	1.4	1.8	0.7	1.0	2.1	0.8	3.0	2.8	1.3	0.9	2.4	2.3	1.1	2.2	1.6	1.4	2.0
AGE: 13																				
DELTA-P	0.7	0.0	0.4	-0.7#	0.3	-0.4	0.4	1.4	-0.4	1.8	0.2	-0.3	-0.5*	0.2	1.4	-0.2	0.0	-0.1	0.0	-0.7#
STD ERR OF DP		0.3	0.6	0.2	0.3	0.2	0.2	0.8	0.2	2.2	0.7	0.3	0.2	0.8	1.6	0.3	0.5	0.5	0.5	0.2
STD ERR OF P	0.2	0.3	0.8	0.0	0.3	0.2	0.4	0.8	0.1	[illegible]	0.7	0.2	0.2	0.7	1.8	0.3	0.5	0.4	0.6	0.0
AGE: 17																				
DELTA-P	0.2	0.4	-0.2*	-0.2*	0.1	-0.2	0.2	0.4	-0.1	-0.2*	-0.1	-0.2	0.1	-0.2*	0.5	0.0	0.3	-0.2*	-0.1	-0.2*
STD ERR OF DP		0.3	0.1	0.1	0.2	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.2	0.4	0.1	0.2	0.1
STD ERR OF P	0.1	0.4	0.0	0.0	0.3	0.0	0.2	0.5	0.1	0.0	0.1	0.0	0.2	0.0	0.7	0.2	0.5	0.0	0.1	0.0
AGE: Ad																				
DELTA-P	0.1	-0.1	0.0	-0.1	0.1	-0.1	0.1	0.3	-0.1	0.0	-0.1	-0.1	0.1	0.4	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.0	0.1	0.0	0.1	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.1	0.4	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.1	0.0	0.2	0.0	0.1	0.4	0.0	0.1	0.0	0.0	0.2	0.4	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	23.1	-10.2#	-1.0	8.5#	0.9	1.4	-1.5	-12.9#	3.1#	-14.5#	-3.6	-3.7*	8.3#	-11.2#	-3.2	-3.0	1.3	1.4	1.5	14.0#
STD ERR OF DP		2.1	2.7	2.6	2.3	1.1	1.1	2.1	0.5	3.2	3.9	1.5	1.5	3.4	5.1	1.5	3.1	3.2	2.9	4.0
P-VALUE	23.1	13.0	22.2	31.6	24.0	24.6	21.6	10.3	26.2	8.6	19.5	19.5	31.4	11.9	19.9	20.1	24.4	24.5	24.6	37.1
STD ERR OF P	1.5	2.0	3.1	3.5	2.4	1.8	1.9	2.0	1.7	3.1	3.9	2.2	2.3	3.4	5.7	2.2	3.4	3.3	3.2	4.2
AGE: 13																				
DELTA-P	59.0	-5.9#	4.7*	2.9	-2.5	1.0	-0.9	-22.9#	4.4#	-11.1#	-1.1	-1.0	5.4#	-12.9#	2.6	-0.1	-0.9	-8.0	7.3*	5.6
STD ERR OF DP		1.8	2.2	2.0	2.4	1.5	1.4	2.9	0.7	4.3	3.2	1.8	1.5	5.0	4.9	2.1	2.1	4.2	3.0	2.9
P-VALUE	59.0	53.0	63.6	61.8	56.5	59.9	58.1	36.1	63.3	47.8	57.8	57.9	64.4	46.1	61.6	58.9	58.0	51.0	66.2	64.6
STD ERR OF P	1.2	1.8	2.6	2.3	3.0	2.1	1.7	3.0	1.3	4.6	3.4	2.3	1.7	5.2	5.0	2.5	2.0	4.6	3.2	2.9
AGE: 17																				
DELTA-P	69.6	-8.7#	2.3	3.5	1.1	4.3#	-4.1#	-22.0#	3.6#	-3.8	-8.5#	-2.6	6.1#	-7.9	-1.2	0.7	1.1	-5.9	2.3	5.8
STD ERR OF DP		1.9	2.6	2.2	2.2	1.1	1.1	2.8	0.6	5.7	3.0	1.9	1.5	4.5	4.0	1.5	3.1	4.2	3.1	3.3
P-VALUE	69.6	60.9	71.9	73.1	70.7	73.9	65.5	47.6	73.2	65.8	61.1	67.1	75.7	61.7	68.4	70.3	70.7	63.7	71.9	75.4
STD ERR OF P	1.3	1.9	3.1	2.7	2.5	1.6	1.7	2.9	1.4	6.0	2.8	2.6	1.8	4.8	4.3	2.0	3.2	4.1	3.4	3.6
AGE: Ad																				
DELTA-P	81.7	-1.2	3.7	1.3	-4.1*	4.2#	-3.9#	-18.0#	2.8#	-7.2#	-2.2	2.9	7.4#	-13.9#	-0.2	1.7	2.7	-2.0	-0.8	5.3*
STD ERR OF DP		2.2	2.2	1.7	2.0	1.1	1.1	3.0	0.5	2.0	2.1	1.5	1.6	3.9	5.0	1.6	3.0	5.0	3.2	2.2
P-VALUE	81.7	80.4	85.3	83.0	77.5	85.8	77.8	63.6	84.5	74.4	79.5	84.5	89.0	67.8	81.5	83.4	84.4	79.7	80.9	86.9
STD ERR OF P	1.2	2.5	2.7	1.8	2.2	1.6	1.6	3.2	1.1	2.4	2.4	1.9	1.8	4.1	5.3	1.7	3.1	5.3	3.6	2.3
RESPONSE: 03 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	15.6	7.9#	0.6	-6.6#	-0.6	-2.5#	2.7#	5.4*	-1.5#	2.5	6.9	-0.9	-5.5#	4.4	1.8	0.6	1.4	-0.6	-4.3	-2.6
STD ERR OF DP		1.4	2.1	1.4	1.5	0.8	0.9	2.6	0.5	3.5	4.3	1.7	1.0	3.0	3.9	1.5	2.6	2.7	2.4	2.1
STD ERR OF P	0.9	1.5	2.6	1.5	1.6	0.9	1.5	2.6	1.1	3.8	4.4	1.8	1.2	2.9	3.9	1.8	2.9	2.7	2.6	2.3
AGE: 13																				
DELTA-P	4.6	3.0*	-0.5	-1.6*	-0.5	-1.1#	1.1#	10.0#	-1.7#	3.5	2.2	-0.4	-1.4#	6.4#	-2.3	-0.3	1.6	-0.3	-2.0*	-0.1
STD ERR OF DP		1.3	0.9	0.6	0.7	0.4	0.4	2.0	0.3	2.3	1.7	0.7	0.4	2.0	1.7	0.6	1.5	1.2	0.9	1.4
STD ERR OF P	0.5	1.6	1.0	0.6	0.8	0.5	0.8	2.2	0.4	2.3	1.8	0.8	0.6	2.1	1.8	0.8	1.8	1.2	0.8	1.4
AGE: 17																				
DELTA-P	3.3	1.4	0.5	-2.0#	0.6	-1.2#	1.2#	5.2#	-0.8#	-0.2	2.1	0.7	-1.2#	3.4*	-0.4	-0.6	-0.9	-2.8#	1.8	-0.2
STD ERR OF DP		0.8	0.8	0.5	0.8	0.4	0.4	1.4	0.2	1.1	1.4	0.6	0.4	1.5	1.2	0.5	0.8	0.5	1.3	1.0
STD ERR OF P	0.4	0.9	0.9	0.4	0.9	0.4	0.7	1.6	0.4	1.2	1.5	0.8	0.5	1.6	1.2	0.6	0.8	0.3	1.5	1.1

EXERCISE: UK16

This unreleased exercise dealt with GEOMETRY at the level of Objective V.

RESPONSE: 03 AGE: A6 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.2	-0.9	-1.2*	0.6	1.4	-1.3*	1.2*	3.6	-0.5*	-0.1	1.1	-0.3	-1.4*	1.9	-0.8	-0.2	0.9	2.4	-2.0*	-0.9
STD ERR OF DP		0.6	0.5	0.5	1.0	0.3	0.3	2.0	0.3	0.6	0.9	0.5	0.4	1.5	0.9	0.4	1.4	2.9	0.4	0.7
STD ERR OF P	0.4	0.5	0.5	0.5	1.3	0.4	0.6	2.3	0.1	0.7	0.9	0.5	0.5	1.6	0.9	0.4	1.5	3.1	0.2	0.7

Report #: UK17

NAEP #: K51024-34

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		03-08	01-03
National P-value:			
	UK17	20.88	19.41
Timing: (in seconds)			
UK17	Exercise total:	43	*

*Time not limited by paced tape.

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                                NATION |             REGION              |      SEX        |      RACE       |      PARENTAL EDUCATION          |           SIZE-AND-TYPE OF COMMUNITY
                                       | SOUTH                    NORTH  |                 |                 |           SOME    GRAD    POST   |  LOW   EXTREME SMALL  MEDIUM   MAIN   URBAN    HIGH
                                _______|__EAST____WEST_CENTRAL__EAST__ |__MALE___FEMALE__|__BLACK___WHITE__|_NO_HS____HS______HS______HS_____|_METRO__RURAL__PLACES__CITY__BIG_CTY_FRINGE__METRO_

EXERCISE: UK17

This unreleased exercise dealt with GEOMETRY at the level of Objective IV.


RESPONSE:  00     AGE: 17        TEXT:  No Response.

    DELTA-P                        1.0    -0.3    -0.5     0.3     0.3      0.4*   -0.4*      1.1    -0.3      -0.3     0.3    -0.1    -0.0       3.9     0.0    -0.9#   -0.6    -0.2     1.0    -0.7
    STD ERR OF DP                          0.4     0.4     0.5     0.4      0.2     0.2       1.2     0.2       0.7     0.8     0.4     0.3       2.0     0.5     0.3     0.4     0.5     0.6     0.4
    STD ERR OF P                   0.3     0.4     0.3     0.7     0.5      0.4     0.2       1.4     0.2       0.7     0.8     0.4     0.5       2.2     0.5     0.1     0.4     0.5     0.8     0.3

                  AGE: Ad

    DELTA-P                        0.4    -0.0     0.2    -0.1    -0.1      0.0     0.0       0.5    -0.0       0.6     0.2    -0.4    -0.4*     -0.4*    1.5     0.2    -0.4*   -0.1    -0.4*   -0.4*
    STD ERR OF DP                          0.3     0.4     0.3     0.3      0.1     0.1       0.6     0.1       0.5     0.5     0.2     0.2       0.2     1.4     0.3     0.2     0.4     0.2     0.2
    STD ERR OF P                   0.2     0.3     0.5     0.4     0.3      0.3     0.2       0.7     0.2       0.6     0.6     0.1     0.0       0.0     1.5     0.4     0.0     0.3     0.0     0.0

RESPONSE:  01*    AGE: 17        TEXT:  All Acceptable Responses.

    DELTA-P                       20.9    -8.8#   -0.4    -2.0     9.9#     4.6#   -4.5#    -17.8#    3.3#    -15.2#  -15.7#   -2.5*    9.8#    -12.8#  -11.2#    1.3     0.4    -8.3*    2.3    19.1#
    STD ERR OF DP                          2.3     2.1     2.0     2.7      1.3     1.2       1.7     0.5       2.1     1.7     1.2     1.1       3.6     2.6     1.8     2.8     3.9     3.7     3.3
    P-VALUE                       20.9    12.1    20.5    18.9    30.8     25.5    16.4       3.1    24.1       5.7     5.2    18.4    30.7       8.0     9.6    22.2    21.3    12.5    23.2    40.0
    STD ERR OF P                   1.3     2.5     2.2     2.5     3.2      2.1     1.3       1.1     1.4       1.8     1.2     1.6     2.0       3.3     2.7     2.1     2.9     4.0     3.8     3.5

                  AGE: Ad

    DELTA-P                       19.4    -3.3     0.2    -1.5     4.5     10.5#   -9.7#    -15.4#    2.2#     -6.8#   -7.4#    0.2    13.8#    -11.1#   -5.1*   -0.5    -0.0     5.7     2.9     6.7#
    STD ERR OF DP                          2.5     2.3     2.3     2.7      1.3     1.2       2.1     0.5       1.8     2.1     1.7     2.1       2.1     2.4     1.6     4.5     5.4     4.4     2.6
    P-VALUE                       19.4    16.1    19.7    17.9    23.9     29.9     9.7       4.1    21.6      12.7    12.0    19.6    33.3       8.3    14.4    19.0    19.4    25.1    22.3    26.1
    STD ERR OF P                   1.4     2.6     2.6     2.8     3.1      2.4     1.1       1.9     1.6       2.1     2.1     2.1     2.8       2.1     2.1     2.1     4.9     5.7     4.9     2.6

RESPONSE:  39     AGE: 17        TEXT:  I Don't Know.

    DELTA-P                       11.0     2.2     1.9    -2.1    -1.0     -0.3     0.3       1.5     0.1       6.7     3.1     1.3    -2.8#      1.8     1.7     0.6     0.6    -3.0    -3.2     1.9
    STD ERR OF DP                          1.7     1.1     1.0     1.3      0.9     0.8       1.9     0.3       3.4     1.9     1.0     0.7       3.5     2.2     1.0     1.6     2.7     1.9     2.2
    STD ERR OF P                   0.7     2.0     1.1     1.1     1.5      1.1     1.1       1.9     0.9       3.6     2.0     1.3     0.8       3.6     2.4     1.2     1.6     2.8     2.0     2.3

                  AGE: Ad

    DELTA-P                       15.8    -0.2    -0.6     2.0    -1.5     -3.7#    3.4#      0.0    -0.1       2.1    -1.9     0.9    -5.6#     -1.6    -1.4     2.5     2.6     5.3    -4.3#   -7.6#
    STD ERR OF DP                          2.1     1.9     2.2     2.1      1.0     0.8       3.2     0.5       1.8     2.3     2.0     1.5       3.0     2.7     1.6     3.2     4.0     1.6     2.3
    STD ERR OF P                   1.2     2.3     2.2     2.7     2.8      1.4     1.6       3.7     1.2       2.1     2.6     2.2     1.6       3.3     2.7     2.0     3.5     4.5     1.7     2.3
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Report #: UK18

NAEP #: K52001-1

Content Area: K. GEOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age: 9
Package-Exercise: 02-31
National P-value:
UK18 3.85

Timing: (in seconds)
UK18 Exercise total: 35

1312

EXERCISE: UK18

This unreleased exercise dealt with GEOMETRY at the level of Objective I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREMP RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9 TEXT: No Response.																				
DELTA-P	4.7	0.4	2.8	-2.5*	-0.2	1.0	-1.0	1.9	-0.8*	0.8	-2.6*	1.2	-1.3*	6.6	-2.2	-1.1	-0.5	0.6	-0.7	0.0
STD ERR OF DP		1.1	2.0	0.8	0.9	0.5	0.5	1.3	0.2	2.0	1.1	1.0	0.6	4.6	1.1	0.9	1.2	1.8	1.1	1.8
STD ERR OF P	0.7	1.2	2.6	0.6	0.8	0.9	0.9	1.3	0.7	1.9	1.0	1.2	1.0	5.1	1.0	0.8	1.2	1.6	1.1	1.9
RESPONSE: 01* AGE: 9 TEXT: All Acceptable Responses.																				
DELTA-P	3.9	-1.7*	0.8	0.5	0.5	0.8	-0.8	0.4	-0.4	-0.0	-1.2	0.3	1.5*	1.0	-0.5	1.0	-1.5	0.0	-1.5*	0.2
STD ERR OF DP		0.6	0.8	0.7	0.8	0.4	0.4	0.9	0.2	1.5	1.1	0.9	0.7	1.4	1.1	0.7	0.9	2.0	0.7	1.0
P-VALUE	3.9	2.1	4.6	4.3	4.3	4.6	3.1	4.3	3.5	3.8	2.6	4.1	5.3	4.9	3.3	4.9	2.3	3.9	2.4	4.0
STD ERR OF P	0.4	0.5	0.9	0.8	1.0	0.7	0.5	0.9	0.5	1.6	1.0	1.1	0.9	1.4	1.2	0.9	0.9	2.0	0.6	1.1
RESPONSE: 39 AGE: 9 TEXT: I Don't Know.																				
DELTA-P	38.5	-1.8	0.4	-1.9	3.0	-4.7*	4.6*	-3.6	1.0	-10.2*	-8.2	-2.0	-5.6*	-0.1	0.8	-1.8	-2.8	-2.6	0.3	7.5
STD ERR OF DP		3.2	3.5	3.5	3.1	1.3	1.3	3.5	0.7	4.2	4.9	2.5	1.7	5.2	5.7	2.5	4.5	6.7	3.8	4.3
STD ERR OF P	1.9	3.5	4.0	4.3	3.6	2.5	2.2	3.9	2.1	4.3	5.1	2.7	2.5	5.7	6.2	3.1	4.8	6.8	4.2	4.7

Report #: UK19

NAEP #: K52005-3

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		11-23
National P-value:		
	UK19	19.99

Timing: (in seconds)
UK19 Exercise total: 55

EXERCISE: UK19

This unreleased exercise dealt with GEOMETRY at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	2.2	-0.6	0.6	-1.0	1.2	-0.1	0.1	3.4	-0.5	-0.2	-1.2	-1.2	-0.0	4.6*	-1.5	-1.8*	-2.2#	3.6*	-1.7*	5.0
STD ERR OF DP		0.8	2.0	0.8	1.0	0.3	0.3	1.8	0.3	1.3	0.9	0.8	0.9	1.9	0.9	0.8	0.7	1.5	0.9	5.9
STD ERR OF P	0.7	0.3	2.6	0.5	1.0	0.9	0.7	1.9	0.9	1.0	0.5	0.4	1.5	2.0	0.5	0.3	0.0	1.4	0.5	6.5
RESPONSE: 10* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	20.0	-3.9	-3.4	3.1	2.9	1.8	-1.9	-10.8#	2.5#	-1.0	-8.4#	-2.4	6.0#	-13.5#	-3.5	5.0	1.2	-0.9	-0.4	0.3
STD ERR OF DP		2.1	3.2	1.6	2.4	1.1	1.3	1.9	0.4	3.1	2.1	1.6	1.3	2.5	2.6	2.6	2.2	3.7	2.5	4.0
P-VALUE	20.0	16.1	16.6	23.1	22.9	21.8	18.1	9.2	22.5	19.0	11.6	17.6	26.0	6.5	16.5	25.0	21.2	19.1	19.6	20.3
STD ERR OF P	1.4	2.1	4.1	1.5	2.7	2.2	1.3	1.8	1.5	3.0	2.3	1.7	2.3	2.3	2.1	3.6	1.7	3.6	2.4	4.1
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	15.2	2.2	-0.5	1.4	-3.1	-3.5#	3.6#	11.0#	-1.7#	4.9	6.4#	2.1	-5.3#	7.0*	1.2	-1.7	2.4	-5.3*	-0.7	0.7
STD ERR OF DP		2.2	1.7	1.8	1.6	0.8	0.9	2.9	0.5	3.0	2.0	1.4	1.0	3.0	3.5	1.4	2.6	2.2	2.4	3.0
STD ERR OF P	1.1	2.4	1.9	2.3	1.6	1.4	1.3	3.3	1.1	3.0	2.4	2.0	1.2	3.3	3.7	1.3	2.7	2.4	2.8	3.3

Report #: UK20

NAEP #: K53003-34

Content Area: K. GEOMETRY

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		07-02	03-12
National P-value:			
	UK20	13.64	20.73
Timing: (in seconds)			
UK20	Exercise total:	38	*

*Time not limited by paced tape.

EXERCISE: UK20

This unreleased exercise dealt with GEOMETRY at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	2.5	-0.3	-0.9	0.8	0.2	-0.0	0.0	3.5#	-0.6#	-0.0	0.8	-0.0	-1.0#	4.3#	-0.5	-0.4	-0.8	1.3	-1.1*	-0.3
STD ERR OF DP		0.6	0.5	0.6	0.6	0.4	0.3	1.0	0.2	1.1	1.2	0.4	0.3	1.5	0.7	0.5	1.1	1.7	0.5	0.8
STD ERR OF P	0.3	0.7	0.6	0.7	0.7	0.4	0.5	1.1	0.4	1.2	1.4	0.5	0.4	1.5	0.7	0.6	1.1	1.8	0.5	0.8
AGE: Ad																				
DELTA-P	0.9	-0.3	-0.1	-0.5	0.9	0.1	-0.1	2.1	-0.3	0.5	-0.6	0.3	-0.4	2.1	1.6	-0.4	-0.2	-0.7	-0.2	-0.5
STD ERR OF DP		0.5	0.5	0.4	1.0	0.3	0.3	2.4	0.3	0.5	0.4	0.7	0.4	2.6	1.2	0.4	0.6	0.4	0.6	0.5
STD ERR OF P	0.3	0.4	0.4	0.2	1.2	0.6	0.3	2.7	0.2	0.5	0.3	0.9	0.3	2.9	1.3	0.3	0.5	0.3	0.5	0.4
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	13.6	-2.6*	1.6	0.1	0.5	4.5#	-3.8#	-10.1#	1.7#	-3.4	-2.4	-1.3	2.4#	-8.0#	1.6	0.0	2.4	1.7	-2.0	3.0
STD ERR OF DP		1.3	1.3	1.1	1.3	0.9	0.8	1.1	0.3	2.3	1.7	1.0	0.9	1.6	2.0	1.0	2.2	1.4	1.9	2.1
P-VALUE	13.6	11.0	15.2	13.8	14.1	18.1	9.8	3.5	15.3	10.3	11.2	12.4	16.1	5.6	15.3	13.7	16.0	15.4	11.6	16.7
STD ERR OF P	0.7	1.4	1.5	1.3	1.5	1.3	0.8	0.9	0.8	2.3	1.9	1.3	1.1	1.6	2.1	1.1	2.5	1.2	2.2	2.2
AGE: Ad																				
DELTA-P	20.7	-1.6	0.7	-1.3	2.1	11.1#	-10.3#	-15.7#	2.7#	-6.9#	-4.6*	-0.1	12.3#	-10.9#	3.5	-0.3	0.2	2.5	1.8	3.2
STD ERR OF DP		1.9	1.8	2.0	2.4	1.2	1.1	1.7	0.5	1.7	2.1	1.4	2.0	2.1	3.3	1.4	2.5	4.1	2.7	2.9
P-VALUE	20.7	19.1	21.5	19.4	22.9	31.8	10.4	5.0	23.4	13.9	16.1	20.6	33.0	9.9	24.2	20.4	20.9	23.3	22.6	24.0
STD ERR OF P	1.2	1.9	1.9	2.4	2.9	2.1	1.0	1.6	1.4	2.1	2.2	1.9	2.1	2.1	3.5	1.9	2.6	4.4	2.9	3.1
RESPONSE: 39 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	29.4	6.8#	-3.0	-2.6	0.1	-7.0#	6.1#	9.4#	-1.5#	14.1#	2.5	0.9	-4.4#	11.3#	1.3	-0.3	-5.3*	-4.2	5.6	-6.8*
STD ERR OF DP		2.5	2.2	1.7	2.2	1.3	1.1	2.8	0.5	4.0	2.6	1.6	1.3	3.4	4.2	1.5	2.3	3.1	3.4	3.3
STD ERR OF P	1.2	2.8	2.6	1.9	2.6	1.6	1.7	2.9	1.3	4.2	3.2	1.9	1.7	3.3	4.5	1.8	2.7	3.1	3.9	3.4
AGE: Ad																				
DELTA-P	33.6	5.1	-2.9	-1.1	0.2	-15.7#	14.6#	16.0#	-2.2#	6.2#	6.4*	-1.2	-11.5#	11.4#	-5.0	1.9	2.3	2.5	-8.1#	-7.0*
STD ERR OF DP		2.8	2.5	2.4	2.0	1.2	1.1	5.0	0.7	2.2	2.8	1.6	2.0	4.3	3.7	1.9	4.2	4.6	3.2	3.1
STD ERR OF P	1.4	3.1	3.0	3.0	1.9	1.4	1.9	5.2	1.5	2.9	2.8	2.0	2.2	4.7	3.9	2.4	4.0	4.7	3.5	3.6

Report #: UK21

NAEP #: K54001-234

Content Area: K. GEOMETRY

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		12	17	Adult
Package-Exercise:		11-10	12-02	08-09
National P-value:				
	UK21A	32.75	57.10	47.45
	UK21B	36.28	60.13	47.52
	UK21C	31.35	51.82	44.39

Timing: No paced tape was used in this individually administered exercise.

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                            NATION |            REGION              |      SEX       |      RACE       | .      PARENTAL EDUCATION       |            SIZE-AND-TYPE OF COMMUNITY
                                   | SOUTH                    NORTH |                |                 |             SOME    GRAD    POST  |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                            -------|  EAST   WEST  CENTRAL    EAST  |  MALE  FEMALE  |  BLACK   WHITE  | NO HS      HS      HS      HS   | METRO  RURAL PLACES  CITY BIG CTY FRINGE METRO

EXERCISE: UK21

This unreleased exercise dealt with GEOMETRY at the level of Objective II.

Part A.

RESPONSE:  00     AGE: 13          TEXT:  No Response.

     DELTA-P                   2.0     -0.9   -1.0*   0.9    0.7     -0.2    0.2      0.6   -0.1      2.0    0.7    -0.1    -0.9      -0.3   0.1   -0.5    0.8    2.0   -0.8   -0.3
     STD ERR OF DP                      0.5    0.5    0.9    0.7      0.3    0.3      0.9    0.2      1.6    0.9     0.4     0.5       0.9   1.1    0.4    1.4    1.1    0.6    0.8
     STD ERR OF P              0.4      0.3    0.4    1.2    0.9      0.6    0.5      0.9    0.5      1.9    1.1     0.6     0.8       0.9   1.3    0.6    1.5    1.1    0.5    0.8

                  AGE: 17

     DELTA-P                   0.2     -0.0   -0.2*  -0.1    0.4     -0.0    0.0      0.1    0.0     -0.2*   0.2     0.1    -0.2      -0.2* -0.2*   0.3    0.3   -0.2*  -0.2*  -0.2*
     STD ERR OF DP                      0.2    0.1    0.1    0.3      0.1    0.1      0.2    0.0      0.1    0.3     0.1     0.1       0.1   0.1    0.2    0.4    0.1    0.1    0.1
     STD ERR OF P              0.1      0.1    0.0    0.1    0.4      0.1    0.1      0.2    0.1      0.0    0.3     0.2     0.1       0.0   0.0    0.3    0.5    0.0    0.0    0.0

                  AGE: Ad

     DELTA-P                   0.0     -0.0   -0.0    0.1   -0.0     -0.0    0.0      0.3   -0.0     -0.0    0.2    -0.0    -0.0       0.4  -0.0   -0.0   -0.0   -0.0   -0.0   -0.0
     STD ERR OF DP                      0.0    0.0    0.1    0.0      0.0    0.0      0.4    0.0      0.0    0.2     0.0     0.0       0.4   0.0    0.0    0.0    0.0    0.0    0.0
     STD ERR OF P              0.0      0.0    0.0    0.1    0.0      0.0    0.1      0.4    0.0      0.0    0.3     0.0     0.0       0.4   0.0    0.0    0.0    0.0    0.0    0.0

RESPONSE:  01*    AGE: 13          TEXT:  All Acceptable Responses.

     DELTA-P                  32.8     -7.8** -2.8    6.5*   2.1      4.3** -4.3**  -23.2**  5.0**  -10.8** -13.0** -2.3    11.3**   -20.2** -1.5   -1.4    3.5   -1.4   -1.2   15.9**
     STD ERR OF DP                      2.8    2.4    2.9    2.5      1.1    1.1      2.0    0.7      3.0    2.6     1.8     1.6       3.0   4.5    2.[illegible]   2.5    3.8    4.4    3.4
     P-VALUE                  32.8     25.0   29.9   39.2   34.9     37.0   28.4      9.5   37.7     13.9   19.7    30.4    44.0      12.6  31.3   31.8   36.3   31.4   31.6   48.7
     STD ERR OF P              1.6      3.2    2.5    3.7    2.7      2.1    1.7      2.3    1.6      3.2    3.2     2.5     1.8       3.3   5.0    2.2    2.3    4.1    4.9    3.5

                  AGE: 17

     DELTA-P                  57.1    -10.9** -1.8    6.8**  3.5      8.5** -8.6**  -28.8**  5.5**  -19.2** -21.2** -1.4    12.6**   -22.0** -7.1    1.6    4.7   -5.2    2.7   11.5**
     STD ERR OF DP                      2.5    2.6    1.9    2.5      1.1    1.2      2.0    0.6      3.6    3.7     1.8     1.4       3.4   3.8    2.0    2.5    4.5    2.8    4.3
     P-VALUE                  57.1     46.2   55.3   63.9   60.6     65.6   48.5     28.3   62.6     37.9   35.9    55.7    69.7      35.1  50.0   58.7   61.8   51.9   59.8   68.6
     STD ERR OF P              1.4      2.9    3.1    1.9    3.0      1.8    1.9      2.1    1.4      3.5    4.2     2.1     2.0       3.5   3.7    2.5    2.2    4.8    2.9    4.7

                  AGE: Ad

     DELTA-P                  47.5     -6.6*   6.7    0.3   -1.5     14.9** -13.9** -35.6**  5.0**  -15.3** -10.5**  5.2**  18.2**   -12.5** -5.3    0.6    3.9  -11.1*   0.8   14.2**
     STD ERR OF DP                      2.7    3.6    1.9    2.5      1.3    1.3      3.1    0.7      2.2    2.9     1.9     2.0       4.1   3.0    2.0    4.3    5.2    4.2    4.0
     P-VALUE                  47.5     40.9   54.2   47.7   45.9     62.4   33.5     11.8   52.4     32.2   36.9    52.6    65.7      34.9  42.1   48.0   51.3   36.3   48.3   61.7
     STD ERR OF P              1.6      2.8    4.[illegible]    1.6    2.7      2.1    1.9      2.8    1.5      2.4    3.5     2.5     2.4       4.3   2.7    2.6    4.7    5.3    4.5    4.3

RESPONSE:  03     AGE: 13          TEXT:  I Don't Know.

     DELTA-P                  12.4     -0.3    4.5   -2.7   -1.0     -1.1    1.1      4.6*  -2.3**    9.0    7.5*   -1.7    -2.7*     13.6**  0.4   -1.6   -1.4   -0.2    3.8   -7.3**
     STD ERR OF DP                      1.7    2.4    1.5    1.8      0.8    0.8      2.2    0.7      4.6    3.2     1.3     1.1       3.8   4.1    1.2    2.0    2.6    2.8    1.9
     STD ERR OF P              1.1      1.8    3.1    1.5    2.0      1.2    1.4      2.4    0.9      5.2    3.6     1.2     1.5       3.9   4.5    1.3    2.0    2.8    3.1    2.0

                  AGE: 17

     DELTA-P                  15.8      5.4*   0.1   -2.9*  -1.5     -3.4**  3.4**   12.8** -2.6**    6.3*   8.8**  -0.2    -5.6**    12.6** -1.3   -1.2   -4.1*   3.4    3.0   -6.0**
     STD ERR OF DP                      2.5    2.3    1.4    1.8      0.9    0.9      2.4    0.6      3.0    3.2     1.2     1.0       3.7   2.3    1.5    1.7    3.3    2.9    2.2
     STD ERR OF P              1.2      3.0    2.7    1.3    2.0      1.3    1.6      2.7    1.2      3.2    3.5     1.7     1.4       3.6   2.5    2.2    1.6    3.5    3.3    2.4

                  AGE: Ad

     DELTA-P                  21.5      2.1   -6.0** -0.8    5.2*    -8.3**  7.8**   14.4** -2.1**    7.6**  3.7    -2.0   -11.0**     8.2** -0.3    0.9   -3.4    6.5   -6.1   -4.6
     STD ERR OF DP                      2.3    1.8    2.2    2.4      0.9    0.9      3.8    0.5      1.9    2.2     1.7     1.6       3.1   4.9    1.4    3.1    4.6    3.1    2.8
     STD ERR OF P              1.3      2.5    1.9    2.7    2.9      1.3    1.8      4.2    1.3      2.3    2.5     2.1     1.9       3.4   5.2    1.8    3.3    4.8    3.1    3.1

EXERCISE: UK21

Part B.

RESPONSE:  00     AGE: 13          TEXT:  No Response.

     DELTA-P                   1.8      0.0    0.1   -0.3    0.3     -0.2    0.2      0.3   -0.1      1.0   -0.2     0.0    -0.5       0.4  -0.1   -0.5    0.5    1.4   -0.7    0.1
     STD ERR OF DP                      0.5    0.6    0.5    0.6      0.3    0.3      0.6    0.2      1.3    0.7     0.4     0.4       1.0   0.7    0.4    0.7    0.9    0.6    0.9
     STD ERR OF P              0.3      0.5    0.6    0.6    0.7      0.4    0.5      0.7    0.4      1.3    0.8     0.5     0.5       1.1   0.7    0.5    0.8    1.1    0.7    1.0
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EXERCISE: UK21

This unreleased exercise dealt with GEOMETRY at the level of Objective II.

Part B.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.6	-0.3	0.0	-0.4	0.6	0.1	-0.1	-0.3	-0.1	0.5	-0.3	0.5	-0.3	0.5	-0.6#	0.1	0.0	-0.6#	-0.3	0.4
STD ERR OF DP		0.2	0.3	0.2	0.4	0.2	0.2	0.3	0.1	1.1	0.3	0.3	0.2	0.7	0.2	0.3	0.5	0.2	0.4	0.7
STD ERR OF P	0.2	0.2	0.4	0.2	0.6	0.3	0.2	0.2	0.2	1.1	0.2	0.5	0.1	0.8	0.0	0.4	0.5	0.0	0.4	0.8
AGE: Ad	Response did not occur at this age.																			
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	36.3	-11.9#	-0.4	5.8*	4.1	3.7#	-3.7#	-23.9#	5.1#	-16.8#	-15.7#	-2.1	11.3#	-18.8#	-5.6	-0.4	0.9	1.8	0.1	14.4#
STD ERR OF DP		2.5	2.3	2.8	2.5	1.1	1.1	2.2	0.8	3.8	2.6	1.9	1.6	3.8	4.3	2.2	3.0	4.1	4.4	3.6
P-VALUE	36.3	24.4	35.9	42.1	40.4	39.9	32.6	12.4	41.4	19.5	20.6	34.2	47.6	17.5	30.7	35.9	37.2	38.1	36.4	50.7
STD ERR OF P	1.5	2.8	2.5	3.5	2.7	2.1	1.6	2.4	1.7	3.9	2.8	2.3	2.1	3.9	4.6	2.7	3.1	[illegible]	4.8	3.5
AGE: 17																				
DELTA-P	60.1	-13.0#	-0.2	5.5*	5.2*	7.7#	-7.8#	-29.1#	5.3#	-15.9#	-20.6#	0.8	10.2#	-19.8#	-8.3*	-0.5	4.9	-2.5	2.1	15.8#
STD ERR OF DP		2.5	2.7	2.3	2.3	1.3	1.3	2.0	0.7	3.3	3.1	1.7	1.4	3.7	3.6	1.9	2.9	5.1	3.6	3.9
P-VALUE	60.1	47.1	60.0	65.6	65.3	67.9	52.4	31.1	65.4	44.2	39.5	61.0	70.3	40.4	51.8	59.7	65.0	57.6	62.2	75.9
STD ERR OF P	1.5	3.0	3.1	2.7	2.4	2.1	1.9	2.2	1.5	3.5	3.5	1.9	2.2	3.7	3.7	2.4	2.7	5.6	3.8	4.3
AGE: Ad																				
DELTA-P	47.5	-8.4#	6.9#	1.3	-1.2	13.7#	-12.8#	-33.8#	4.8#	-14.4#	-11.1#	5.3#	17.5#	-13.3#	-3.9	0.8	5.3	-11.6*	0.4	12.6#
STD ERR OF DP		2.8	2.7	2.1	2.8	1.1	1.2	3.4	0.7	2.0	2.7	1.9	2.0	4.8	5.3	2.1	4.6	5.1	3.9	3.8
P-VALUE	47.5	39.1	54.4	48.9	46.3	61.2	34.7	13.7	52.3	33.1	36.4	52.8	65.1	34.2	43.6	48.3	52.8	35.9	47.9	60.1
STD ERR OF P	1.5	3.1	3.2	2.3	3.4	1.9	1.8	3.2	1.5	2.4	3.2	2.2	2.3	5.1	5.4	2.7	4.8	5.0	4.1	3.9
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	11.7	-0.7	3.0	-1.4	-0.7	-1.1	1.1	3.6	-2.0#	8.5	6.1*	-1.8	-2.2*	13.1#	1.8	-2.2	-1.5	0.4	4.5	-6.4#
STD ERR OF DP		1.5	2.4	1.4	1.7	0.7	0.8	2.1	0.7	4.6	2.9	1.2	1.1	3.7	4.1	1.2	2.0	2.7	3.0	2.0
STD ERR OF P	1.0	1.5	3.0	1.5	1.9	1.1	1.4	2.3	0.9	5.2	3.3	1.2	1.4	3.8	4.5	1.4	2.0	2.9	3.2	2.1
AGE: 17																				
DELTA-P	15.3	6.1#	-1.1	-2.1	-1.9	-4.6#	4.7#	11.1#	-2.2#	7.5*	10.3#	-1.3	-5.5#	[illegible]	-0.6	-0.4	-3.9	4.1	2.3	-8.3#
STD ERR OF DP		2.4	2.2	1.4	1.7	0.8	0.9	2.0	0.5	3.2	3.2	1.1	1.0	3.0	2.6	1.5	2.1	3.2	2.5	1.8
STD ERR OF P	1.1	3.0	2.6	1.3	1.9	1.3	1.6	2.3	1.2	3.4	3.7	1.5	1.4	3.0	2.8	2.2	2.0	3.3	2.8	1.8
AGE: Ad																				
DELTA-P	23.7	2.1	-5.5#	0.0	3.8	-9.3#	8.7#	15.2#	-2.2#	6.2#	2.2	-0.7	-10.4#	8.5#	-1.7	-0.2	-2.9	7.7	-3.9	-3.8
STD ERR OF DP		2.2	1.8	2.3	2.4	0.9	1.0	3.8	0.6	1.9	2.2	1.7	1.7	3.3	4.9	1.4	3.3	4.3	3.5	3.1
STD ERR OF P	1.3	2.4	1.8	2.8	2.9	1.3	1.7	4.1	1.2	2.4	2.5	2.1	1.9	3.5	5.2	1.7	3.5	4.5	3.8	3.4

EXERCISE: UK21

Part C.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	1.6	0.6	-0.3	-0.5	0.4	-0.1	0.1	1.4	-0.2	0.3	0.3	-0.5	-0.3	1.5	-0.4	-0.5	0.6	0.8	-0.8	0.5
STD ERR OF DP		0.5	0.5	0.4	0.6	0.3	0.3	0.8	0.2	0.9	0.7	0.3	0.4	1.1	0.6	0.4	0.6	1.0	0.5	0.9
STD ERR OF P	0.3	0.5	0.5	0.4	0.8	0.3	0.4	0.9	0.3	0.9	0.7	0.4	0.5	1.2	0.7	0.4	0.6	1.1	0.5	1.1
AGE: 17																				
DELTA-P	0.5	-0.1	0.2	-0.3	0.3	0.0	-0.0	-0.1	-0.1	0.7	-0.4*	0.3	-0.2	0.2	-0.5#	0.2	0.2	-0.5#	-0.1	-0.1
STD ERR OF DP		0.2	0.3	0.2	0.4	0.2	0.2	0.3	0.1	1.1	0.2	0.3	0.2	0.6	0.2	0.3	0.5	0.2	0.3	0.4
STD ERR OF P	0.2	0.2	0.4	0.2	0.5	0.2	0.2	0.2	0.2	1.1	0.1	0.4	0.1	0.7	0.0	0.3	0.5	0.0	0.4	0.4

EXERCISE: UK21

This unreleased exercise dealt with GEOMETRY at the level of Objective II.

Part C.

RESPONSE: 00 AGE: Ad TEXT: No Response.

Response did not occur at this age.

RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	31.4	-9.0#	-1.4	7.1*	1.0	3.0#	-3.0#	-20.6#	4.5#	-20.3#	-12.5#	-2.2	10.9#	-19.7#	-3.9	-0.7	0.4	-0.8	0.9	16.6#
STD ERR OF DP		2.4	2.2	3.6	2.6	1.2	1.2	2.2	0.7	3.5	2.7	1.7	1.6	2.6	3.7	2.4	2.9	3.4	4.3	3.7
P-VALUE	31.4	22.3	30.0	38.5	32.4	34.3	28.3	10.7	35.9	11.1	18.8	29.2	42.2	11.7	27.5	30.6	31.7	30.6	32.2	47.9
STD ERR OF P	1.7	2.3	2.1	4.8	2.7	2.1	2.1	2.5	1.8	3.7	3.1	2.6	2.0	2.8	4.0	2.7	2.7	3.9	5.1	4.0

AGE: 17

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	51.8	-10.5#	-0.4	5.4#	3.4	7.5#	-7.5#	-30.7#	5.4#	-18.3#	-21.6#	0.4	11.3#	-15.9#	-5.1	-1.0	3.5	-6.3	2.1	16.0#
STD ERR OF DP		2.1	2.1	2.0	2.0	1.1	1.2	2.0	0.6	3.3	4.1	2.0	1.6	3.6	3.6	1.7	3.9	5.3	3.2	4.3
P-VALUE	51.8	41.3	51.4	57.2	55.2	59.3	44.3	21.1	57.2	33.6	30.2	52.2	63.1	35.9	46.8	50.8	55.3	45.5	53.9	67.8
STD ERR OF P	1.2	2.3	2.3	2.4	2.2	1.6	1.8	2.0	1.3	3.1	4.4	2.1	2.2	3.6	3.7	1.8	4.1	5.6	3.4	4.4

AGE: Ad

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	44.4	-7.0*	7.2#	1.3	-2.6	12.5#	-11.7#	-33.0#	5.1#	-15.5#	-10.7#	2.9	21.1#	-17.4#	-5.9	-0.8	6.6	-7.4	2.3	16.1#
STD ERR OF DP		3.0	2.7	2.0	2.5	1.1	1.1	2.8	0.7	1.9	2.6	1.9	2.0	4.2	3.4	1.9	4.9	4.4	4.1	3.5
P-VALUE	44.4	37.4	51.6	45.7	41.8	56.9	32.7	11.4	49.4	28.9	33.7	47.2	65.4	27.0	38.5	43.6	50.9	37.0	46.7	60.4
STD ERR OF P	1.5	3.5	3.2	2.1	2.8	1.9	1.7	2.6	1.5	2.1	3.0	2.5	2.2	4.1	3.5	2.4	5.5	4.4	4.3	3.6

RESPONSE: 03 AGE: 13 TEXT: I Don't Know.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	12.1	0.4	2.5	-1.7	-0.8	-1.3	1.4	2.8	-2.0#	7.4	5.7	-1.6	-2.2*	9.2#	3.5	-2.3	-0.7	-0.0	3.5	-6.3#
STD ERR OF DP		1.6	2.4	1.4	1.6	0.7	0.8	2.1	0.7	4.7	3.0	1.1	1.0	3.6	3.9	1.2	2.1	2.7	2.9	1.9
STD ERR OF P	1.0	1.7	3.0	1.5	1.8	1.1	1.4	2.3	0.9	5.2	3.3	1.1	1.4	3.7	4.4	1.4	2.1	2.9	3.0	2.0

AGE: 17

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	16.0	5.2*	0.5	-1.3	-3.4*	-4.1#	4.1#	10.3#	-2.1#	6.3	10.3#	-0.3	-5.9#	11.3#	0.0	-0.6	-3.0	5.3	1.2	-8.3#
STD ERR OF DP		2.4	2.1	1.5	1.6	0.8	0.9	2.0	0.4	3.4	3.3	1.3	1.1	3.1	2.4	1.5	2.3	3.3	2.8	1.9
STD ERR OF P	1.1	2.9	2.5	1.5	1.8	1.3	1.6	2.2	1.1	3.4	3.8	1.7	1.4	3.1	2.5	2.2	2.2	3.5	3.0	1.9

AGE: Ad

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	25.1	1.5	-5.6#	0.6	3.8	-9.7#	9.0#	15.4#	-2.4#	7.1#	3.7	-1.7	-10.7#	6.9*	-0.6	0.6	-2.7	8.9*	-6.0	-4.7
STD ERR OF DP		2.5	1.9	2.0	2.5	1.0	1.0	3.8	0.6	1.9	2.3	1.6	1.7	3.2	5.0	1.5	3.2	4.2	3.3	2.8
STD ERR OF P	1.3	2.8	2.1	2.4	3.0	1.3	1.8	4.3	1.2	2.5	2.7	1.8	2.0	3.4	5.4	1.8	3.3	4.5	3.6	3.2

Report #: UK22

NAEP #: K60001-23

Content Area: K. GEOMETRY

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		13	17
Package-Exercise:		12-02	13-01
National P-value:			
	UK22	10.31	37.32

Timing: No paced tape was used in this individually administered exercise.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURA	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: UK22

This unreleased exercise dealt with GEOMETRY at the level of Objective II.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURA	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	8.5	0.6	0.9	0.7	-2.3	-0.4	0.4	2.1	-0.7	1.9	-0.9	0.9	-1.7*	8.7	-1.0	2.5	1.9	-3.7*	-5.1#	-3.6
STD ERR OF DP		1.6	1.9	1.4	1.5	0.7	0.7	1.6	0.4	2.4	1.6	0.8	0.7	6.0	2.0	1.4	2.2	1.5	1.4	2.0
STD ERR OF P	0.9	1.8	2.3	1.5	1.6	1.2	1.1	1.8	0.8	2.4	1.8	1.2	1.1	6.4	2.1	1.7	2.4	1.3	1.4	2.0
AGE: 17																				
DELTA-P	5.4	-1.9	-0.3	1.3	0.3	-0.1	0.1	-1.2	0.1	1.9	-2.9#	-0.4	0.0	1.1	-0.2	-1.7	-2.2	-2.7#	7.4*	-0.9
STD ERR OF DP		1.0	1.4	1.4	1.7	0.5	0.5	1.4	0.3	2.6	1.1	0.8	0.6	2.0	1.3	1.0	1.8	1.0	3.2	1.4
STD ERR OF P	0.8	0.8	1.6	1.7	2.1	0.9	1.1	1.6	0.9	2.7	1.0	1.2	1.0	2.0	1.1	1.0	1.9	0.9	3.8	1.4
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	10.3	-3.5*	-1.6	6.2#	-2.4	-0.1	0.1	-7.1#	1.4#	-8.0#	-5.8#	-0.1	5.0#	-8.3#	6.6	1.3	-2.9	-1.3	-4.0*	5.0
STD ERR OF DP		1.7	1.5	1.5	1.4	0.8	0.8	1.3	0.3	1.7	1.5	1.4	0.9	1.3	5.0	1.8	1.5	2.2	1.8	2.9
P-VALUE	10.3	6.8	8.8	16.5	7.9	10.2	10.4	3.3	11.7	2.4	4.6	10.2	15.3	2.0	16.9	11.6	7.5	9.0	6.3	15.3
STD ERR OF P	0.9	1.9	1.7	1.8	1.5	1.1	1.3	1.1	1.0	1.4	1.5	1.6	1.5	1.1	5.1	2.1	1.3	2.3	1.9	3.3
AGE: 17																				
DELTA-P	37.3	-11.7#	1.3	3.7	4.3*	5.0#	-4.9#	-26.7#	4.4#	-19.0#	-20.8#	-1.5	11.4#	-17.3#	-7.4	1.2	1.9	-4.7	-2.0	20.4#
STD ERR OF DP		2.4	2.3	2.8	2.0	1.2	1.2	2.3	0.6	3.9	3.0	1.7	1.3	3.1	3.9	2.0	4.0	4.0	2.7	2.8
P-VALUE	37.3	25.6	38.6	41.0	41.6	42.4	32.5	10.6	41.8	18.3	16.6	35.8	48.8	20.1	29.9	38.6	39.3	32.6	35.3	57.8
STD ERR OF P	1.4	2.4	2.5	3.7	2.1	2.0	1.6	2.2	1.5	3.9	3.2	1.9	2.0	3.2	3.9	2.3	4.5	4.0	3.0	2.6
RESPONSE: 03 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	54.6	1.7	5.7*	-10.3#	4.7	-1.0	1.0	-1.6	-0.1	0.9	7.0	0.4	-4.5#	3.1	-3.7	-3.9	0.4	5.0	7.7*	-2.3
STD ERR OF DP		3.5	2.6	2.3	2.5	1.2	1.2	3.1	0.7	3.8	3.8	1.6	1.6	7.5	5.4	2.0	3.9	4.1	3.3	4.3
STD ERR OF P	1.5	4.3	3.0	2.4	2.6	2.2	1.7	3.5	1.6	3.8	4.3	1.9	2.2	7.8	6.0	2.5	4.2	4.2	3.5	4.3
AGE: 17																				
DELTA-P	29.8	7.3#	4.9	-7.2#	-2.5	-1.9	1.9	13.0#	-2.7#	13.7#	16.2#	3.9#	-10.4#	12.9#	8.0	0.8	1.1	0.1	-0.5	-19.9#
STD ERR OF DP		2.5	2.8	2.9	3.0	1.4	1.3	3.5	0.6	5.4	3.8	1.5	1.3	3.8	6.4	2.1	4.1	3.8	3.5	2.5
STD ERR OF P	1.6	2.5	3.1	3.6	3.6	2.2	2.0	3.4	1.9	5.8	4.3	2.1	1.9	3.9	6.6	2.4	4.6	3.9	4.0	2.6

Report #: UL01

NAEP #: L12001-3

Content Area: L. TRIGONOMETRY

Objective: I. Recall and/or Recognition of Definitions, Facts, and Symbols.

Exercise Type: Multiple part short answer using drawings
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17
Package-Exercise:		04-26
National P-value:		
	UL01A	10.76
	UL01B	11.37
	UL01C	11.67

Timing: (in seconds)

UL01A	Part total:	19
UL01B	Part total:	19
UL01C	Part total:	20
UL01	Exercise total:	66

EXERCISE: UL01

This unreleased exercise dealt with TRIGONOMETRY at the level of Objective I.

Part A.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	8.5	-2.1	-1.8	2.6	0.2	2.2*	-2.3*	4.7*	-0.8*	1.4	-2.3	1.1	-2.0	1.4	-0.5	-1.7	-4.1*	2.9	3.0	3.3
STD ERR OF DP		1.4	1.3	1.6	1.5	0.7	0.7	2.1	0.4	2.5	1.4	1.4	1.1	2.1	2.0	1.2	1.1	2.7	3.1	4.3
STD ERR OF P	0.9	1.4	1.4	2.1	1.7	1.2	0.9	2.2	1.0	2.5	1.3	1.8	1.4	2.4	2.0	1.3	0.9	2.8	3.4	4.6

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	10.8	-6.4*	-2.8	-3.4	11.0*	0.2	-0.2	-7.2*	1.2*	-8.8*	-8.6*	-2.9*	5.4*	-4.9	-7.3*	-2.8	2.1	5.7	1.8	6.8
STD ERR OF DP		1.7	1.9	1.7	3.3	1.0	1.0	1.8	0.4	1.7	1.6	1.1	1.2	2.9	1.6	1.5	3.1	3.3	3.5	5.0
P-VALUE	10.8	4.4	7.9	7.3	21.8	11.0	10.5	3.6	12.0	1.9	2.2	7.9	16.2	5.9	3.5	8.0	12.9	16.4	12.5	17.6
STD ERR OF P	1.4	1.2	1.7	1.6	4.5	1.5	1.9	1.4	1.7	1.1	1.2	1.4	2.3	2.8	0.9	2.0	3.6	3.3	3.8	5.6

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	39.6	3.9	6.0*	0.0	-8.1*	-5.2*	5.3*	-5.6	0.7	11.1*	12.4*	0.1	-4.6*	1.2	3.6	3.0	2.3	-5.6	0.9	-11.5*
STD ERR OF DP		2.2	2.3	2.4	2.1	1.3	1.4	2.8	0.5	4.2	3.3	1.6	1.3	5.2	5.1	2.0	3.3	3.6	3.3	4.8
STD ERR OF P	1.3	2.2	2.5	3.2	2.2	1.6	2.2	2.9	1.5	4.3	3.6	2.1	1.8	5.5	5.5	1.8	3.6	3.5	3.8	5.3

EXERCISE: UL01

Part B.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	10.1	-1.9	-1.5	2.2	0.2	2.3*	-2.3*	5.2*	-1.0*	2.7	-0.6	0.3	-2.0	1.5	-0.8	-2.1	-3.9*	2.3	4.2	3.2
STD ERR OF DP		1.4	1.2	1.6	1.6	0.7	0.7	2.4	0.4	2.7	1.5	1.4	1.1	2.5	2.0	1.3	1.5	2.6	3.2	4.5
STD ERR OF P	0.9	1.3	1.2	2.1	2.0	1.3	1.0	2.5	1.1	2.7	1.6	1.8	1.3	2.8	2.0	1.4	1.4	2.7	3.4	4.8

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	11.4	-5.7*	-2.7	-3.6*	10.5*	0.6	-0.6	-6.4*	1.1*	-10.3*	-7.9*	-2.6*	5.4*	-4.6	-8.3*	-1.5	1.8	6.0	1.3	4.7
STD ERR OF DP		1.7	1.8	1.7	3.0	0.9	0.9	2.1	0.4	1.3	1.6	1.2	1.1	2.9	1.8	1.5	3.0	3.8	3.5	3.7
P-VALUE	11.4	5.6	8.7	7.8	21.8	12.0	10.7	5.0	12.5	1.1	3.5	8.8	16.8	6.8	3.1	9.9	13.2	17.4	12.7	16.1
STD ERR OF P	1.3	1.4	1.7	1.8	3.9	1.5	1.7	2.0	1.5	0.3	1.4	1.7	2.0	2.9	1.5	1.9	3.4	4.0	3.8	3.9

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	40.2	3.7	6.2*	0.4	-8.6*	-5.3*	5.3*	-4.7	0.7	13.1*	7.5*	1.6	-4.5*	0.5	-0.2	3.4	1.9	-4.7	2.0	-10.7*
STD ERR OF DP		2.0	2.3	2.6	2.2	1.2	1.4	2.8	0.5	4.0	3.0	1.7	1.3	5.1	6.2	2.0	3.3	3.9	3.4	4.6
STD ERR OF P	1.4	1.9	2.5	3.4	2.4	1.6	2.2	2.8	1.6	4.2	3.3	2.2	1.9	5.4	6.5	1.9	3.6	3.8	3.9	5.0

EXERCISE: UL01

Part C.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	9.8	-0.7	-1.7	0.7	1.3	2.5*	-2.5*	6.0*	-1.2*	4.6	-1.2	-0.1	-2.0*	2.1	-0.1	-1.3	-5.4*	3.8	2.9	2.6
STD ERR OF DP		1.3	1.3	1.5	1.5	0.7	0.7	2.2	0.4	2.7	1.3	1.2	0.9	2.3	2.1	1.2	1.1	2.4	2.8	3.0
STD ERR OF P	0.9	1.3	1.3	1.9	1.9	1.3	0.9	2.4	1.0	2.7	1.3	1.6	1.0	2.6	2.2	1.3	0.9	2.4	3.2	3.2

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	11.7	-5.3*	-3.4	-3.3	10.5*	1.4	-1.4	-7.4*	1.2*	-10.0*	-8.8*	-3.5*	5.9*	-2.9	-8.2*	-2.5	4.6	6.4	0.5	3.1
STD ERR OF DP		2.0	1.8	2.0	3.5	0.8	0.8	2.0	0.5	1.5	1.7	1.2	1.3	3.2	1.7	1.6	3.2	3.7	3.6	2.9
P-VALUE	11.7	6.4	8.3	8.4	22.2	13.1	10.2	4.3	12.9	1.7	2.8	8.2	17.6	8.8	3.5	9.1	16.3	18.0	12.2	14.7
STD ERR OF P	1.5	1.7	1.4	2.1	4.6	1.7	1.6	1.7	1.7	0.5	1.3	1.3	2.5	3.2	1.1	2.3	3.9	3.8	3.6	2.9

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	39.4	5.2	5.9*	1.0	-10.1*	-4.1*	4.2*	-2.5	0.1	12.8*	12.7*	2.4	-6.5*	2.5	2.8	3.3	2.0	-4.7	1.0	-13.1*
STD ERR OF DP		2.8	2.4	2.8	2.3	1.2	1.3	3.2	0.6	5.3	2.9	1.7	1.2	4.5	5.6	2.2	3.8	3.6	4.0	4.9
STD ERR OF P	1.5	3.0	2.5	3.7	2.3	1.8	2.1	3.1	1.7	5.3	3.3	2.4	1.8	4.7	5.9	2.1	4.1	3.5	4.7	5.1

Report #: UN01

NAEP #: N00002-1234

Content Area: N. LOGIC

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple choice
Scoring Type: Machine
Administration Mode: Group

Age:		9	13	17	Adult
Package-Exercise:		02-35	01-24	05-09	07-25
National P-value:					
	UN01	54.26	81.42	83.90	74.81

Timing: (in seconds)					
UN01	Exercise total:	59	61	58	*

*Time not limited by paced tape.

EXERCISE: UN01

This unreleased exercise dealt with LOGIC at the level of Objective III.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	0.8	-0.7	1.8	-0.7	-0.3	-0.1	0.1	-0.0	-0.2	-0.8	-0.3	0.1	-0.1	5.9	-0.6	-0.8	-0.6	-0.8	-0.5	-0.8
STD ERR OF DP		0.6	1.8	0.6	0.6	0.2	0.2	0.7	0.1	0.6	0.6	0.5	0.3	4.6	0.6	0.6	0.6	0.6	0.6	0.6
STD ERR OF P	0.6	0.1	2.4	0.2	0.4	0.5	0.7	0.5	0.5	0.0	0.5	0.6	0.8	5.1	0.2	0.1	0.3	0.0	0.3	0.0
AGE: 13																				
DELTA-P	0.5	-0.5	1.1	-0.5	0.0	-0.1	0.1	2.8	-0.5	-0.5	0.1	-0.2	-0.2	8.4	-0.5	-0.4	-0.5	-0.5	-0.5	-0.5
STD ERR OF DP		0.4	1.2	0.4	0.5	0.2	0.2	2.3	0.4	0.4	0.2	0.1	0.2	5.7	0.4	0.4	0.4	0.4	0.4	0.4
STD ERR OF P	0.4	0.0	1.5	0.0	0.4	0.3	0.6	2.7	0.0	0.0	0.6	0.3	0.2	6.1	0.0	0.1	0.0	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.0	0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	0.0	0.1	-0.0	-0.0	-0.0
STD ERR OF DP		0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
STD ERR OF P	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
AGE: Ad	Response did not occur at this age.																			
RESPONSE: 01* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	54.3	-6.5*	0.3	4.4*	1.2	1.0	-1.0	-15.2*	2.9*	-10.2	-4.7	2.4	7.9*	-15.7*	-4.4	0.5	5.5*	-4.2	1.5	10.7*
STD ERR OF DP		2.6	2.2	2.2	2.1	1.0	1.0	2.7	0.7	6.0	4.8	3.0	1.9	3.6	4.5	2.4	2.6	3.7	2.8	2.6
P-VALUE	54.3	47.8	54.6	58.7	55.5	55.3	53.3	39.1	57.1	44.0	49.5	56.6	62.2	38.6	49.9	54.8	59.7	50.1	55.7	65.0
STD ERR OF P	1.4	3.2	2.3	2.6	2.4	1.6	1.8	2.6	1.6	6.6	5.3	2.9	2.2	3.7	4.9	3.1	2.6	3.5	2.8	2.5
AGE: 13																				
DELTA-P	81.4	-4.3*	-2.0	2.5	2.4	1.2	-1.2	-23.5*	5.0*	-13.2*	-7.1*	-0.5	7.6*	-17.2*	-6.3	0.4	-1.5	-0.8	1.6	12.0*
STD ERR OF DP		2.1	2.5	1.7	2.0	1.0	1.0	3.3	1.0	4.5	3.1	1.2	1.1	4.5	4.7	1.6	2.4	2.6	2.5	1.4
P-VALUE	81.4	77.1	79.5	83.9	83.8	82.6	80.2	58.0	86.4	68.2	74.3	81.0	89.0	64.3	75.2	81.8	79.9	80.6	83.0	93.4
STD ERR OF P	1.2	2.3	3.0	1.9	2.3	1.5	1.6	3.7	1.0	5.0	3.2	1.6	1.2	4.8	5.1	1.8	2.4	2.9	2.5	1.2
AGE: 17																				
DELTA-P	83.9	-7.9*	-0.3	2.9	3.4*	1.6	-1.3	-21.8*	4.5*	-9.7*	-8.7*	-0.7	6.5*	-7.3*	2.4	-1.6	3.5	-8.3	2.9	6.1*
STD ERR OF DP		2.4	2.0	1.8	1.6	0.9	0.8	2.4	0.6	3.0	2.9	1.3	1.1	2.9	3.1	1.3	2.3	5.3	3.4	2.8
P-VALUE	83.9	76.0	83.6	86.8	87.3	85.5	82.6	62.1	88.4	74.2	75.2	83.2	90.4	76.6	86.3	82.4	87.4	75.6	86.8	90.0
STD ERR OF P	1.1	2.4	2.3	2.2	1.6	1.3	1.5	2.7	1.0	3.3	3.0	1.7	1.3	2.9	3.1	1.4	2.5	5.7	3.7	3.0
AGE: Ad																				
DELTA-P	74.8	-2.0	6.2*	-3.5	-1.0	1.9	-1.8	-19.2*	2.9*	-9.7*	-4.0	1.0	14.3*	-16.5*	-1.5	-1.5	0.2	8.6*	-3.4	13.5*
STD ERR OF DP		2.8	2.3	2.6	2.1	1.2	1.1	4.4	0.7	2.1	2.8	1.8	2.0	4.6	3.1	1.9	3.2	4.3	3.5	3.0
P-VALUE	74.8	72.8	81.0	71.4	73.8	76.8	73.0	55.6	77.8	65.1	70.8	75.8	89.1	58.3	73.3	73.4	75.0	83.4	71.4	88.3
STD ERR OF P	1.5	3.1	2.7	3.4	2.2	1.9	1.8	4.5	1.6	2.8	2.6	2.4	2.2	4.7	3.0	2.7	3.2	4.7	3.8	3.0
RESPONSE: 09 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	7.7	3.3*	0.2	-1.2	-1.9*	0.4	-0.4	5.0*	-1.0*	6.2*	-2.6	-2.6*	-4.8*	5.7*	-0.3	1.3	-1.7	-1.1	-0.2	-5.5*
STD ERR OF DP		1.4	1.0	0.9	0.9	0.5	0.5	2.0	0.4	2.8	1.7	1.1	0.8	2.1	1.9	0.8	1.6	2.0	1.6	0.9
STD ERR OF P	0.6	1.8	1.0	1.0	0.9	1.0	0.7	2.3	0.7	3.0	1.7	1.2	0.6	2.2	2.1	1.0	1.6	2.0	1.8	0.8
AGE: 13																				
DELTA-P	0.2	0.5	-0.3	-0.0	-0.2	0.0	-0.0	-0.1	0.0	-0.3	-0.3	-0.3	-0.2	-0.3	-0.0	-0.1	1.0	-0.3	-0.3	-0.3
STD ERR OF DP		0.4	0.1	0.2	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.7	0.1	0.1	0.1
STD ERR OF P	0.1	0.5	0.0	0.2	0.1	0.2	0.2	0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.2	0.2	0.8	0.0	0.0	0.0
AGE: 17																				
DELTA-P	0.7	0.4	-0.1	-0.1	-0.1	0.2	-0.1	2.4*	-0.5*	2.5	-0.2	-0.2	-0.4	0.2	0.7	-0.4*	-0.1	2.5	-0.6*	-0.2
STD ERR OF DP		0.3	0.3	0.3	0.4	0.3	0.2	1.0	0.2	1.6	0.4	0.3	0.2	0.7	0.8	0.2	0.3	2.0	0.2	0.5
STD ERR OF P	0.2	0.2	0.4	0.4	0.5	0.4	0.2	1.1	0.1	1.7	0.3	0.3	0.2	0.8	0.8	0.1	0.3	2.1	0.1	0.5

EXERCISE: UM01

This unreleased exercise dealt with LOGIC at the level of Objective III.

RESPONSE: 09 AGE: Ad TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.4	0.2	-1.2*	-0.2	1.4	0.3	-0.3	1.6	-0.3	1.7*	-0.5	-0.6	-1.1	1.0	-0.3	0.2	-0.2	-0.6	-0.1	-0.3
STD ERR OF DP		0.7	0.6	0.9	0.8	0.4	0.3	1.3	0.2	0.7	0.9	0.6	0.6	1.2	0.9	0.6	1.0	1.3	1.0	1.5
STD ERR OF P	0.4	0.7	0.5	1.1	1.0	0.6	0.6	1.3	0.5	1.0	1.0	0.7	0.6	1.3	0.7	0.9	0.9	1.3	1.0	1.7

Report #: UH02

NAEP #: N00011-234

Content Area: H. LOGIC

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		02-19	09-20	05-11
National P-value:				
	UH02	75.00	78.75	63.39

Timing: (in seconds)

		13	17	Adult
UH02	Exercise total:	191	188	*

*Time not limited by paced tape.

EXERCISE: UW02

This unreleased exercise dealt with LOGIC at the level of Objective V.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	0.1	-0.1	0.3	-0.0	-0.1	0.1	-0.1	-0.1	0.0	-0.1	-0.1	-0.1	0.2	-0.1	-0.1	-0.1	0.1	-0.1	0.5	-0.1
STD ERR OF DP		0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.5	0.1
STD ERR OF P	0.1	0.0	0.4	0.1	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.6	0.0
AGE: 17																				
DELTA-P	0.3	0.3	0.1	-0.3*	-0.1	0.1	-0.1	0.3	-0.1	0.5	-0.3*	-0.1	-0.1	-0.3*	-0.3*	0.2	-0.3*	0.2	0.3	-0.1
STD ERR OF DP		0.4	0.3	0.1	0.2	0.2	0.1	0.5	0.1	0.6	0.1	0.1	0.2	0.1	0.1	0.3	0.1	0.5	0.5	0.2
STD ERR OF P	0.1	0.5	0.4	0.0	0.2	0.2	0.2	0.6	0.1	0.6	0.0	0.2	0.2	0.0	0.0	0.3	0.0	0.5	0.6	0.2
AGE: Ad																				
DELTA-P	0.2	0.7	-0.2	-0.2	-0.2	-0.2	0.2	1.5	-0.2	0.5	-0.2	-0.2	-0.2	-0.2	-0.2	0.3	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.7	0.2	0.2	0.2	0.2	0.2	1.5	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2
STD ERR OF P	0.2	0.8	0.0	0.0	0.0	0.0	0.3	1.6	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	75.0	-6.9**	3.7*	1.9	0.5	-0.2	0.2	-14.9**	3.2**	-12.4**	-11.8**	4.4**	5.2**	-11.6**	-7.0	-3.0	1.9	-0.3	9.5**	6.9*
STD ERR OF DP		2.5	1.7	2.2	2.2	1.0	1.0	3.0	0.7	4.7	3.9	1.7	1.2	4.0	4.4	1.7	2.4	3.1	2.4	2.9
P-VALUE	75.0	68.1	78.7	76.9	75.5	74.9	75.2	60.1	78.2	62.7	63.3	79.4	80.2	63.4	68.0	72.1	76.9	74.8	84.5	81.9
STD ERR OF P	1.3	3.0	1.6	2.7	2.5	1.6	1.6	3.1	1.5	5.3	4.4	1.7	1.5	4.0	5.0	2.2	2.2	3.2	2.3	3.0
AGE: 17																				
DELTA-P	78.8	-0.3	2.1	1.3	-3.0	1.1	-1.0	-12.0**	2.8**	-12.0**	-8.9**	0.5	6.3**	-10.4*	-0.8	0.8	-0.3	-3.2	1.7	7.0**
STD ERR OF DP		1.6	1.4	1.7	1.9	1.0	0.9	2.7	0.6	3.1	2.8	1.7	1.0	4.3	2.9	1.5	2.7	3.1	2.0	2.1
P-VALUE	78.8	78.5	80.8	80.0	75.8	79.8	77.7	66.8	81.6	66.8	69.8	79.2	85.0	68.3	77.9	79.6	78.4	75.6	80.4	85.7
STD ERR OF P	1.0	1.7	1.4	2.0	2.4	1.4	1.4	2.8	1.1	3.4	2.7	2.1	1.2	4.4	3.0	1.9	2.7	3.2	2.2	2.2
AGE: Ad																				
DELTA-P	63.4	-3.4	3.6	2.4	-3.3	0.5	-0.5	-14.0**	3.4**	-8.0**	-1.0	1.5	8.9**	-13.0**	-0.8	-0.5	-1.2	6.1	-1.6	9.6**
STD ERR OF DP		2.8	2.1	2.6	2.4	1.2	1.1	3.1	0.8	2.1	2.9	1.8	2.2	4.0	4.5	1.7	2.6	5.4	3.4	3.7
P-VALUE	63.4	60.0	67.0	65.7	60.1	63.9	62.9	49.4	66.8	55.4	62.4	64.9	72.3	50.4	62.6	62.9	62.2	69.5	61.8	73.0
STD ERR OF P	1.4	3.2	2.3	3.2	2.7	2.1	1.6	3.5	1.4	2.8	3.0	2.1	2.6	4.1	4.8	2.2	2.8	5.7	[illegible]	3.9
RESPONSE: 09 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	3.9	-0.1	-1.7**	0.7	1.0	0.1	-0.1	-0.6	0.4*	1.0	3.3	-1.1*	0.1	1.7	1.6	0.9	-0.5	-1.6	-1.7	-0.4
STD ERR OF DP		1.0	0.5	0.6	0.7	0.4	0.4	1.0	0.2	1.7	1.9	0.5	0.5	1.9	1.1	0.8	[illegible]	0.9	0.9	1.3
STD ERR OF P	0.4	1.2	0.5	0.7	0.8	0.5	0.6	0.9	0.5	1.7	2.1	0.6	0.6	2.0	1.0	1.1	1.4	0.9	0.9	1.3
AGE: 17																				
DELTA-P	9.2	1.3	-1.4	-0.6	0.9	0.5	-0.5	-0.2	0.0	2.3	3.1	-1.5	-0.6	-1.3	4.2	1.2	0.5	-2.7	-0.7	-2.1
STD ERR OF DP		1.0	1.0	1.3	1.4	0.6	0.6	1.3	0.3	1.6	1.9	0.9	0.7	1.3	3.2	1.0	1.8	1.9	1.8	1.5
STD ERR OF P	0.7	0.9	0.9	1.6	1.7	0.9	1.0	1.3	0.8	1.7	2.1	1.1	1.0	1.3	3.5	1.3	1.9	2.0	1.9	1.6
AGE: Ad																				
DELTA-P	18.1	-1.4	-3.8*	1.8	3.1	1.2	-1.1	-0.9	-0.7	1.7	-1.8	1.3	-2.6	1.4	-1.0	1.4	-2.1	-0.5	-2.1	-0.6
STD ERR OF DP		1.8	1.9	1.9	1.8	1.1	1.0	2.7	0.6	2.0	2.0	1.5	1.9	3.5	5.1	1.4	2.5	4.5	2.0	3.6
STD ERR OF P	1.1	1.9	2.2	2.4	2.1	1.7	1.3	2.6	1.1	2.3	2.0	2.0	2.2	3.6	5.3	1.8	2.7	4.8	1.7	3.9

```
Report #:       UN03

NAEP #:         C10043-12

Content Area:   H. LOGIC

Objective:      V. Using Mathematics and Mathematical  Reasoning
                   To   Analyze   Problem   Situations,   Define
                   Problems,    Formulate    Hypotheses,    Make
                   Decisions, and Verify Results.

Exercise Type:          Short answer using graph, table or drawing
Scoring Type:           Semi-professional
Administration Mode:    Group

Age:                                  __9__   __13__
Package-Exercise:                     07-05   08-12
National P-value:
                        UN03           2.43    24.68

Timing: (in seconds)
   UN03         Exercise total:        101      72
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EXERCISE: UN03

This unreleased exercise dealt with LOGIC at the level of Objective V.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 9	TEXT: No Response.																			
DELTA-P	1.9	-0.3	0.0	-0.1	0.4	-0.2	0.2	2.9#	-0.9#	1.0	0.3	-0.7	-1.4#	4.0*	0.7	-0.2	-1.3#	1.7	-1.4#	-0.9
STD ERR OF DP		0.6	0.7	0.5	0.7	0.3	0.3	1.1	0.3	1.4	1.2	0.4	0.3	1.6	1.3	0.4	0.4	1.1	0.4	0.7
STD ERR OF P	0.4	0.7	0.8	0.5	0.9	0.4	0.5	1.3	0.2	1.5	1.2	0.5	0.2	1.7	1.4	0.5	0.3	1.3	0.4	0.7
AGE: 13																				
DELTA-P	0.7	-0.3	-0.3	0.9	-0.4	-0.1	0.1	0.7	[illegible]	-0.3	0.2	0.1	-0.3	1.6	-0.7#	-0.2	-0.4	0.1	0.3	0.0
STD ERR OF DP		0.3	0.3	0.5	0.2	0.2	0.2	0.6	0.1	0.4	0.8	0.3	0.2	1.1	0.2	0.3	0.3	0.6	0.8	0.5
STD ERR OF P	0.2	0.3	0.3	0.7	0.2	0.2	0.4	0.7	0.2	0.4	0.9	0.8	0.2	1.1	0.0	0.3	0.3	0.6	1.0	0.6
RESPONSE: 10* AGE: 9	TEXT: All Acceptable Responses.																			
DELTA-P	2.4	-1.1	-0.9	-0.1	1.8	0.7	-0.7	-1.3	0.2	-1.8*	-0.1	-1.1	1.3#	0.3	-1.6*	-0.8	-1.0	2.3	-1.3	3.3
STD ERR OF DP		0.8	0.8	1.1	1.4	0.5	0.5	0.8	0.2	0.9	1.0	0.6	[illegible]	1.2	0.8	0.7	0.8	2.5	0.8	2.4
P-VALUE	2.4	1.4	1.6	2.3	4.3	3.1	1.8	1.1	2.6	0.6	2.3	1.1	3.9	2.7	0.9	1.6	1.5	4.8	1.2	5.7
STD ERR OF P	0.6	0.6	0.7	1.3	1.7	0.9	0.6	0.6	0.7	0.7	1.1	0.5	1.1	1.2	0.5	0.5	0.7	2.9	0.7	2.8
AGE: 13																				
DELTA-P	24.7	-2.1	-7.5#	4.2	5.5	2.2*	-2.3*	-16.4#	4.0#	-15.7#	-10.2#	-2.1	10.6#	-14.9#	-3.3	0.1	3.7	-0.9	1.9	5.5
STD ERR OF DP		2.6	1.9	2.5	2.9	1.0	1.0	2.0	0.6	2.5	2.7	1.5	1.3	3.1	4.6	2.4	3.3	3.4	[illegible]	3.0
P-VALUE	24.7	22.6	17.2	28.8	30.2	26.9	22.4	8.3	28.7	9.0	14.5	22.6	35.3	9.8	21.4	24.8	28.4	23.8	26.6	30.2
STD ERR OF P	1.5	3.1	1.8	3.0	3.5	1.8	1.8	1.3	1.9	2.5	3.2	2.2	1.7	2.9	5.0	3.0	3.2	3.9	3.7	3.1
RESPONSE: 39 AGE: 9	TEXT: I Don't Know.																			
DELTA-P	30.3	-2.5	5.5*	1.5	-4.1	-3.4#	3.5#	-7.8*	1.6*	1.4	-3.3	0.0	0.7	-7.7*	-0.8	-2.3	-1.5	-0.9	3.9	8.3
STD ERR OF DP		2.1	2.6	2.0	2.9	1.1	1.1	3.2	0.7	3.8	5.2	2.6	1.6	3.7	4.4	1.7	3.3	4.2	3.5	4.3
STD ERR OF P	1.4	2.1	3.0	2.1	3.6	1.6	1.9	3.3	1.6	3.7	5.4	3.0	2.1	3.8	4.8	2.1	3.5	4.3	3.6	4.7
AGE: 13																				
DELTA-P	11.3	-1.4	2.7	-2.9	0.9	-1.3	1.3	-1.6	-0.1	2.7	-0.1	-0.4	-1.6*	-1.3	2.5	-2.5	2.1	-1.4	2.3	0.6
STD ERR OF DP		1.0	1.7	1.3	1.8	0.7	0.7	1.9	0.3	3.0	2.2	1.3	0.8	2.5	2.2	1.4	1.9	2.1	2.7	1.9
STD ERR OF P	0.8	0.6	2.1	1.5	2.1	1.0	1.1	2.1	0.9	2.8	2.5	1.7	0.9	2.7	2.1	1.7	1.7	2.4	3.0	1.9

Report #: UP01

NAEP #: P00001-234

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple part short answer using table
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		03-26	11-13	05-24
National P-value:				
	UP01A	49.50	75.57	81.18
	UP01B	53.81	78.97	81.99
	UP01C	6.98	30.35	59.91
	UP01D	49.94	75.86	79.45
	UP01E	48.80	75.48	76.29
Timing: (in seconds)				
UP01	Exercise total:	150	148	*

*Time not limited by paced tape.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: UP01

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

Part A.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	8.2	-1.2	2.4	2.3	-4.0*	0.5	-0.5	7.8#	-1.8#	0.8	-0.0	0.6	-3.3#	13.1#	5.5	-2.7	-2.6	-0.3	3.2	-5.0#
STD ERR OF DP		1.7	2.7	2.9	1.7	0.7	0.7	2.6	0.6	2.7	1.9	1.0	0.9	4.3	7.2	1.9	1.8	2.2	4.9	1.9
STD ERR OF P	1.4	1.2	3.2	3.9	1.3	1.7	1.5	2.6	1.6	3.1	2.1	2.0	1.4	4.4	7.9	2.4	1.3	2.0	5.5	1.3
AGE: 17																				
DELTA-P	1.6	-0.8	-0.1	0.2	0.5	-0.4	0.5	3.0*	-0.8#	3.2	0.8	-0.9#	-0.9*	3.0*	1.1	-0.9*	-0.6	1.8	-0.8	-0.4
STD ERR OF DP		0.4	0.5	0.7	0.6	0.3	0.3	1.2	0.2	1.8	0.7	0.3	0.4	1.3	1.3	0.4	0.7	2.4	0.6	0.8
STD ERR OF P	0.4	0.3	0.5	1.0	0.6	0.4	0.5	1.5	0.2	1.9	0.9	0.4	0.3	1.4	1.4	0.2	0.7	2.7	0.6	0.8
AGE: Ad																				
DELTA-P	0.4	0.9	-0.4*	-0.4*	0.1	-0.1	0.1	3.0	-0.4	0.7	-0.2	-0.2	-0.4*	-0.1	-0.2	0.4	-0.2	-0.4*	-0.1	-0.4*
STD ERR OF DP		0.8	0.2	[illegible]	0.3	0.2	0.2	1.7	0.2	0.6	0.3	0.2	0.2	0.4	0.3	0.3	0.3	0.2	0.4	0.2
STD ERR OF P	0.2	1.0	0.0	[illegible]	0.2	0.2	0.4	1.9	0.0	0.8	0.3	0.2	0.0	0.3	0.2	0.5	0.2	0.0	0.4	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	49.5	-6.2*	-1.6	-0.2	7.4#	-3.6#	3.3#	-26.1#	5.4#	-15.1#	-13.9#	-2.3	11.4#	-29.1#	-9.0	0.2	5.9*	4.1	-1.7	16.7#
STD ERR OF DP		3.1	3.1	2.9	2.6	1.3	1.2	2.8	0.9	3.9	3.0	1.8	1.4	4.2	6.0	1.9	2.9	4.0	4.5	3.4
P-VALUE	49.5	43.3	47.9	49.4	56.9	45.9	52.8	23.4	54.9	34.4	35.6	47.2	60.9	20.4	40.5	49.7	55.4	53.6	47.8	66.2
STD ERR OF P	1.7	3.5	3.8	3.4	2.8	1.9	2.3	2.4	1.9	4.2	3.5	2.3	2.1	3.9	6.5	2.3	2.8	4.3	5.0	3.7
AGE: 17																				
DELTA-P	75.6	-2.3	-1.4	-1.9	5.8#	-1.0	1.1	-21.8#	4.2#	-3.2	-12.2#	-0.1	6.3#	-17.2#	-6.2*	6.3#	1.3	-3.8	1.1	2.2
STD ERR OF DP		2.2	2.3	1.8	2.0	1.0	1.0	3.0	0.8	3.8	2.5	1.6	1.3	4.1	2.7	1.4	3.6	4.0	2.5	3.7
P-VALUE	75.6	73.2	74.1	73.7	81.4	74.5	76.7	53.8	79.8	72.3	63.4	75.5	81.9	58.4	69.4	81.8	76.8	71.7	76.6	77.7
STD ERR OF P	1.2	2.4	2.9	2.2	2.1	1.7	1.4	3.4	1.1	3.8	2.9	2.1	1.5	4.5	2.7	1.6	3.8	4.3	2.5	3.9
AGE: Ad																				
DELTA-P	81.2	-4.0	4.0*	0.9	-1.7	-2.4*	2.3*	-29.6#	5.0#	-11.3#	-5.7*	4.6#	10.9#	-13.9#	-1.7	0.7	-1.1	-3.9	2.6	9.8#
STD ERR OF DP		2.5	1.6	1.5	1.8	1.2	1.1	3.9	0.9	2.0	2.6	1.6	1.6	3.4	2.3	1.1	4.0	3.5	2.7	2.9
P-VALUE	81.2	77.2	85.2	82.1	79.5	78.8	83.4	51.6	86.1	69.9	75.5	85.7	92.1	67.3	79.5	81.9	80.1	77.3	83.8	91.0
STD ERR OF P	1.1	2.9	1.8	1.7	2.2	1.8	1.2	4.1	0.8	2.5	2.6	1.9	1.5	3.6	2.5	1.4	4.4	3.7	2.8	2.9
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	6.9	-0.9	1.0	-1.2	1.1	0.1	-0.1	0.9	-0.7*	2.0	1.4	0.7	-1.7*	6.8#	0.1	-0.5	0.5	-2.6*	-0.7	-0.8
STD ERR OF DP		1.3	1.3	1.2	1.4	0.7	0.6	1.6	0.3	1.8	1.9	0.9	0.8	2.4	2.4	1.0	1.8	1.2	1.2	1.9
STD ERR OF P	0.7	1.4	1.5	1.4	1.6	1.0	0.9	1.6	0.8	1.8	2.2	1.1	0.9	2.6	2.4	1.3	2.0	1.1	1.1	2.2
AGE: 17																				
DELTA-P	1.7	-0.8	0.3	-0.6	-0.3	0.3	-0.3	3.2*	-0.6#	3.2*	0.9	-0.8*	-0.8#	1.5	-0.7*	-0.1	0.1	2.0	-0.9*	-0.8
STD ERR OF DP		0.6	0.6	0.5	0.4	0.2	0.2	1.5	0.2	1.4	0.7	0.4	0.3	1.4	0.4	0.4	0.7	1.7	0.4	0.6
STD ERR OF P	0.3	0.6	0.7	0.6	0.4	0.4	0.3	1.7	0.2	1.5	0.7	0.3	0.4	1.6	0.3	0.4	0.7	1.9	0.3	0.6
AGE: Ad																				
DELTA-P	1.5	0.4	-0.7	-0.5	0.9	0.3	-0.2	5.1#	-0.8#	1.7*	-0.6	-0.0	-1.5#	5.3*	-0.1	-0.2	-0.6	0.2	-1.5#	-1.3#
STD ERR OF DP		0.8	0.4	0.5	0.8	0.3	0.3	1.8	0.3	0.7	0.6	0.4	0.4	2.1	0.7	0.4	0.7	1.2	3.4	0.4
STD ERR OF P	0.4	0.9	0.2	0.5	1.0	0.5	0.4	2.0	0.2	1.0	0.6	0.5	0.0	2.4	0.7	0.4	0.8	1.3	0.0	0.2

EXERCISE: UP01

Part B.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	9.8	-1.7	2.7	1.6	-3.2	1.6#	-1.5#	11.0#	-2.4#	4.0	0.2	1.3	-4.2#	16.9#	6.7	-3.0	-3.3	-1.6	3.5	-5.8#
STD ERR OF DP		1.7	2.9	3.0	1.9	0.6	0.6	3.2	0.7	2.0	2.3	1.1	1.0	4.3	7.0	1.9	2.3	2.1	4.9	1.9
STD ERR OF P	1.5	1.0	3.6	3.9	1.7	1.8	1.5	3.4	1.6	2.6	2.5	2.2	1.4	4.7	7.7	2.4	2.0	1.9	5.5	1.4

EXERCISE: UP01

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

Part B.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	2.6	0.3	0.3	-0.5	0.1	0.0	-0.0	5.9#	-1.2#	2.8	0.4	-1.1*	-1.1#	3.9*	1.4	-1.2*	-1.0	1.3	-0.6	-0.3
STD ERR OF DP		1.0	0.8	0.9	0.8	0.4	0.4	1.7	0.3	1.8	0.9	0.5	0.4	1.9	1.5	0.6	0.8	2.4	0.9	1.0
STD ERR OF P	0.5	1.1	0.9	1.0	0.8	0.7	0.5	2.0	0.4	1.8	0.9	0.7	0.4	2.1	1.5	0.5	0.7	2.7	1.1	1.0
AGE: Ad																				
DELTA-P	0.6	1.1	-0.4	-0.6#	0.1	-0.3	0.3	3.2	-0.4	0.7	-0.3	-0.1	-0.6#	1.0	-0.4	0.3	-0.4	-0.6#	-0.2	-0.6#
STD ERR OF DP		0.8	0.3	0.2	0.3	0.2	0.2	1.7	0.2	0.6	0.3	0.3	0.2	1.0	0.3	0.3	0.3	0.2	0.4	0.2
STD ERR OF P	0.2	1.0	0.1	0.0	0.3	0.2	0.4	1.9	0.1	0.7	0.3	0.3	0.0	1.1	0.2	0.5	0.2	0.0	0.4	0.0
RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	53.8	-5.9	-3.0	0.9	7.5*	-2.8*	2.5*	-30.7#	6.4#	-17.3#	-12.2#	-1.5	10.7#	-32.0#	-8.7	1.1	6.4	5.0	-0.8	14.0#
STD ERR OF DP		3.0	3.0	3.1	3.1	1.2	1.1	2.9	1.0	3.3	3.3	1.7	1.3	4.2	6.6	2.2	3.2	4.6	5.1	3.3
P-VALUE	53.8	47.9	50.8	54.7	61.3	51.1	56.4	23.1	60.2	36.5	41.6	52.4	64.5	21.8	45.1	54.9	60.2	58.8	53.0	67.8
STD ERR OF P	1.8	3.3	3.5	3.8	3.5	1.8	2.4	2.6	2.0	3.5	3.8	2.4	2.0	4.0	7.1	2.6	3.2	5.0	5.5	3.5
AGE: 17																				
DELTA-P	79.0	-3.9*	-0.5	0.2	3.6*	-2.3#	2.4#	-22.2#	3.9#	-1.6	-10.6#	-1.4	6.6#	-19.0#	-8.0#	6.0#	0.1	1.6	-0.7	6.0*
STD ERR OF DP		1.8	2.4	1.8	1.8	0.9	0.9	3.2	0.7	3.0	2.3	1.6	1.2	4.0	2.6	1.3	3.8	3.4	2.3	2.4
P-VALUE	79.0	75.1	78.4	79.1	82.5	76.7	81.4	56.8	82.8	77.4	68.4	77.6	85.5	59.9	71.0	85.0	79.1	80.6	78.3	85.0
STD ERR OF P	1.2	1.8	3.0	2.1	1.9	1.6	1.3	3.6	1.1	2.7	2.9	2.2	1.3	4.2	2.5	1.4	4.1	3.4	2.5	2.3
AGE: Ad																				
DELTA-P	82.0	-4.5	4.6#	0.1	-1.0	-2.8#	2.6#	-23.8#	4.1#	-9.5#	-4.6	3.0	10.2#	-14.1#	-1.0	-1.3	2.6	-2.9	3.1	11.2#
STD ERR OF DP		2.3	1.6	1.9	1.8	1.1	1.0	4.2	0.8	1.8	2.3	1.9	1.4	3.6	2.1	1.2	3.0	4.3	2.3	2.2
P-VALUE	82.0	77.5	86.6	82.1	81.0	79.2	84.6	58.2	86.1	72.5	77.4	85.0	92.2	67.9	81.0	80.7	84.6	79.1	85.1	93.2
STD ERR OF P	1.1	2.6	1.7	2.3	2.1	1.7	1.3	4.5	1.0	2.2	2.4	2.4	1.3	3.7	2.2	1.7	3.1	4.7	2.5	2.1
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	7.8	-0.4	0.4	-0.6	0.6	0.5	-0.4	1.6	-0.7*	4.3	0.7	0.4	-1.8*	6.9#	1.5	-0.5	1.1	-1.8	-1.3	-2.4
STD ERR OF DP		1.4	1.4	1.4	1.4	0.7	0.6	1.9	0.4	2.6	2.0	0.9	0.8	2.3	2.5	1.1	2.1	1.5	1.3	2.0
STD ERR OF P	0.8	1.5	1.6	1.8	1.6	1.1	1.0	2.0	0.9	2.7	2.2	1.2	1.0	2.5	2.6	1.6	2.2	1.5	1.2	2.2
AGE: 17																				
DELTA-P	1.6	0.5	0.2	-0.3	-0.2	0.2	-0.2	2.7*	-0.5#	2.6*	1.1	-0.4	-0.8#	1.4	0.2	-0.2	0.1	1.1	-0.9*	-0.7
STD ERR OF DP		0.5	0.5	0.4	0.4	0.2	0.2	1.2	0.2	1.1	0.7	0.4	0.3	1.2	0.8	0.4	0.7	1.6	0.4	0.6
STD ERR OF P	0.2	0.5	0.6	0.4	0.4	0.3	0.3	1.4	0.2	1.2	0.7	0.4	0.4	1.3	0.7	0.4	0.7	1.7	0.3	0.6
AGE: Ad																				
DELTA-P	1.5	-0.3	-0.7	-0.4	1.5	0.1	-0.1	3.3*	-0.6#	1.4*	0.0	0.0	-1.5#	3.8*	-0.7	-0.1	-0.5	0.3	-0.7	-1.3#
STD ERR OF DP		0.6	0.4	0.5	0.8	0.3	0.2	1.5	0.2	0.7	0.8	0.4	0.3	1.9	0.5	0.4	0.7	1.2	0.7	0.3
STD ERR OF P	0.3	0.6	0.2	0.5	1.0	0.4	0.4	1.6	0.2	0.9	0.8	0.5	0.0	2.1	0.5	0.5	0.8	1.3	0.7	0.2

EXERCISE: UP01

Part C.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	14.8	-0.2	0.9	2.3	-3.3	1.3	-1.2	11.9#	-2.4#	3.2	0.1	1.7	-4.5#	16.0#	6.4	-4.0*	-1.0	0.5	2.2	-5.1*
STD ERR OF DP		1.9	2.5	2.8	1.9	0.9	0.8	2.7	0.7	2.8	2.6	1.4	1.2	3.6	6.8	1.8	2.4	3.0	4.9	2.2
STD ERR OF P	1.4	1.8	3.0	3.6	1.8	1.9	1.4	2.9	1.6	3.3	2.6	2.2	1.6	3.8	7.4	2.2	2.3	2.9	5.4	1.9
AGE: 17																				
DELTA-P	8.4	1.4	-0.4	-0.4	-0.2	-0.8	0.9	10.0#	-2.0#	4.3	0.6	-1.5	-1.5	7.3*	2.3	-3.2#	-0.1	4.5	-1.4	-0.2
STD ERR OF DP		1.0	1.6	1.2	1.1	0.6	0.6	3.1	0.6	3.0	1.5	1.0	1.0	3.4	1.7	0.9	2.9	3.4	1.7	3.1
STD ERR OF P	0.7	0.9	2.0	1.4	1.1	1.0	0.9	3.3	0.7	2.9	1.8	1.1	1.2	3.6	1.7	0.9	3.2	3.6	1.6	3.2

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                              NATION |          REGION            |     SEX       |     RACE      |     PARENTAL EDUCATION        |            SIZE-AND-TYPE OF COMMUNITY
                                     | SOUTH                NORTH |               |               |         SOME   GRAD   POST    |  LOW  EXTREME SMALL MEDIUM  MAIN  URBAN  HIGH
                             ________|__EAST__WEST_CENTRAL__EAST__|__MALE__FEMALE_|_BLACK__WHITE__|_NO HS___HS_____HS_____HS_____|_METRO__RURAL_PLACES__CITY_BIG CTY FRINGE METRO

EXERCISE: UP01

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

Part C.

RESPONSE:  00    AGE: Ad        TEXT:  No Response.

     DELTA-P                   2.0     1.0   -0.5   -0.1   -0.3     -0.2    0.2      4.0   -0.4      0.9   -0.7   -0.4   -0.5      0.6    0.8    0.2   -0.3   -0.4   -0.3   -0.8
     STD ERR OF DP                     1.0    0.6    0.8    0.7      0.4    0.4      2.0    0.3      0.8    0.8    0.7    0.6      1.2    2.4    0.5    0.9    1.1    1.2    0.8
     STD ERR OF P              0.4     1.2    0.6    1.0    0.7      0.6    0.6      2.2    0.5      1.0    0.9    0.8    0.6      1.3    2.6    0.7    0.9    1.0    1.3    0.7

RESPONSE:  01*   AGE: 13        TEXT:  All Acceptable Responses.

     DELTA-P                   7.0    -3.0#  -1.1   -1.4    5.4#     0.1   -0.1     -6.1#   1.1#    -1.4   -5.0#  -1.2    2.8#    -4.7#  -2.7   -0.7    0.6    0.2   -1.5    7.0#
     STD ERR OF DP                     0.8    1.0    1.0    1.2      0.5    0.5      0.8    0.3      2.1    1.0    0.8    0.8      1.0    1.5    0.9    1.7    2.3    1.5    2.5
     P-VALUE                   7.0     4.0    5.9    5.6   12.4      7.1    6.9      0.9    8.0      5.6    2.0    5.8    9.8      2.3    4.3    6.3    7.6    7.2    5.5   14.0
     STD ERR OF P              0.6     0.8    1.1    1.2    1.5      0.8    0.9      0.5    0.7      2.1    0.8    0.9    1.1      0.9    1.6    1.1    1.8    2.3    1.6    2.6

                 AGE: 17

     DELTA-P                  30.4    -5.3*  -2.4    2.4    3.9      2.6*  -2.7*   -21.0#   3.9#   -13.5# -12.9#   0.9    7.0#   -16.7#  -8.5#   4.8#   1.7   -3.6    0.6    8.8*
     STD ERR OF DP                     2.2    2.0    2.2    2.6      1.2    1.2      2.4    0.6      2.9    2.4    1.8    1.2      3.2    2.8    1.9    5.0    5.0    2.7    4.2
     P-VALUE                  30.4    25.1   28.0   32.7   34.3     32.9   27.6      9.3   34.3     16.9   17.5   31.3   37.4     13.7   21.8   35.1   32.0   26.8   31.0   39.1
     STD ERR OF P              1.3     2.3    2.1    2.8    3.0      2.0    1.6      2.4    1.4      2.7    2.4    2.0    1.9      3.4    2.7    2.3    5.3    5.1    2.9    4.1

                 AGE: Ad

     DELTA-P                  59.9    -6.4#   3.0   -1.0    3.4      2.4*  -2.2*   -34.6#   5.6#   -11.3#  -7.6#   4.5*  12.9#   -17.3#  -5.3    0.2   -1.6   -0.6   -2.7   18.7#
     STD ERR OF DP                     2.5    2.6    2.9    2.1      1.1    1.0      3.4    0.7      2.2    2.7    2.2    2.6      3.3    3.3    1.6    4.4    4.0    3.9    3.2
     P-VALUE                  59.9    53.5   62.9   58.9   63.3     62.3   57.7     25.3   65.5     48.6   52.3   64.4   72.8     42.6   54.7   60.1   58.4   59.3   57.2   78.6
     STD ERR OF P              1.5     2.6    3.0    3.6    2.2      2.0    1.6      3.6    1.5      2.6    3.0    2.8    2.9      3.1    3.2    2.0    5.0    4.4    4.4    3.1

RESPONSE:  39    AGE: 13        TEXT:  I Don't Know.

     DELTA-P                  16.3    -1.0   -0.5   -0.2    1.7     -0.9    0.8     -1.8    0.2      0.8    0.7    0.2    0.1      2.1   -0.3   -1.9    3.2    0.0   -0.3    1.0
     STD ERR OF DP                     1.7    2.2    2.0    1.7      0.8    0.7      2.3    0.4      2.9    2.5    1.2    1.2      3.0    3.4    1.5    2.4    2.5    3.0    2.6
     STD ERR OF P              1.1     1.7    2.7    2.4    1.8      1.4    1.4      2.0    1.3      3.1    2.7    1.7    1.5      3.1    3.5    2.1    2.4    2.6    3.2    2.8

                 AGE: 17

     DELTA-P                  10.3     3.4#  -1.3   -0.6   -0.6      0.2   -0.2     -0.5    0.3      3.2    1.9    0.8   -1.0     -0.8    0.9    1.6   -0.9   -0.5   -0.5   -3.1
     STD ERR OF DP                     1.3    1.4    1.2    1.2      0.8    0.8      2.1    0.4      2.4    2.0    1.0    0.7      1.8    2.5    1.0    1.9    2.2    1.8    2.1
     STD ERR OF P              0.8     1.4    1.6    1.6    1.3      1.0    1.1      2.1    0.9      2.5    2.1    1.3    1.1      1.7    2.6    1.2    2.0    2.3    2.1    2.2

                 AGE: Ad

     DELTA-P                   4.3    -1.3   -0.6    0.1    1.6     -0.4    0.3      3.6*  -0.8*     2.1*  -0.6    0.1   -2.3#     3.6   -1.5    0.0   -0.1   -1.7    0.9   -1.3
     STD ERR OF DP                     0.9    0.9    1.1    1.1      0.5    0.5      1.8    0.4      0.9    1.3    0.7    0.7      2.6    1.1    0.8    1.4    1.9    1.3    1.2
     STD ERR OF P              0.6     0.8    0.9    1.4    1.3      0.7    0.8      1.9    0.6      1.2    1.3    0.9    0.6      2.8    1.1    1.1    1.4    2.0    1.3    1.2

EXERCISE: UP01

Part D.

RESPONSE:  00    AGE: 13        TEXT:  No Response.

     DELTA-P                  11.8    -1.1    2.3    1.5   -3.1      1.5*  -1.4*    15.0#  -3.1#     5.3    2.6    0.8   -5.1#    19.5#   7.3   -3.5   -3.4   -0.5    3.4   -7.3#
     STD ERR OF DP                     1.7    2.6    2.8    1.9      0.7    0.7      3.3    0.7      2.7    3.1    1.2    1.1      3.8    7.1    1.9    2.3    2.2    4.9    2.0
     STD ERR OF P              1.4     1.3    3.2    3.6    1.9      1.8    1.4      3.4    1.6      3.1    3.2    2.1    1.5      3.9    7.7    2.2    2.1    2.2    5.5    1.5

                 AGE: 17

     DELTA-P                   3.8     0.9   -0.1   -0.8    0.4      0.1   -0.1      9.7#  -1.7#     2.0    1.0   -0.6   -2.0#     6.6#   2.2   -1.0#  -0.9    2.8   -1.4   -1.6
     STD ERR OF DP                     1.1    1.1    0.8    0.9      0.5    0.6      2.4    0.5      2.1    1.3    0.7    0.5      2.4    1.8    0.6    1.3    2.4    1.2    1.1
     STD ERR OF P              0.6     1.2    1.3    1.0    0.9      0.9    0.7      2.8    0.4      2.2    1.5    0.9    0.4      2.7    1.9    0.6    1.3    2.6    1.2    1.0

                 AGE: Ad

     DELTA-P                   0.7     1.4   -0.6*  -0.7#   0.2     -0.2    0.2      3.9*  -0.4      0.9   -0.5   -0.2   -0.7#     0.8   -0.5    0.5   -0.3   -0.7#  -0.4   -0.7#
     STD ERR OF DP                     0.9    0.3    0.3    0.4      0.3    0.2      1.8    0.2      0.6    0.3    0.3    0.3      1.0    0.3    0.4    0.3    0.3    0.4    0.3
     STD ERR OF P              0.3     1.1    0.1    0.0    0.4      0.3    0.4      2.1    0.1      0.8    0.3    0.3    0.0      1.1    0.2    0.6    0.2    0.0    0.4    0.0
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EXERCISE: UP01

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

Part D.

RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	49.9	-7.5#	-1.8	-0.0	8.6#	-2.1	1.9	-30.7#	6.4#	-19.8#	-14.8#	-1.2	11.4#	-29.6#	-10.0	0.7	5.7	5.0	-0.4	14.6#
STD ERR OF DP		2.9	3.0	3.1	3.1	1.2	1.1	2.8	1.0	3.2	3.0	1.8	1.3	4.3	6.0	2.0	3.7	4.2	4.8	3.5
P-VALUE	49.9	42.5	48.2	49.9	58.5	47.8	51.9	19.3	56.3	30.2	35.2	48.8	61.3	20.4	40.0	50.6	55.6	54.9	49.6	64.6
STD ERR OF P	1.8	3.1	3.6	3.8	3.5	1.9	2.3	2.3	2.0	3.2	3.3	2.4	2.2	4.0	6.5	2.3	3.9	4.6	5.3	3.9
AGE: 17																				
DELTA-P	75.9	-2.4	-1.3	-0.3	3.8	-2.0	2.1	-24.3#	4.4#	-3.3	-10.9#	-0.1	6.3#	-22.6#	-6.9*	6.5#	0.4	1.1	-0.8	7.3*
STD ERR OF DP		2.4	2.3	1.7	1.9	1.1	1.1	2.9	0.8	3.4	2.6	1.7	1.2	3.6	3.3	1.5	4.5	5.0	2.2	3.1
P-VALUE	75.9	73.4	74.5	75.6	79.6	73.8	78.0	51.6	80.2	72.6	65.0	75.8	82.1	53.3	69.0	82.4	76.2	77.0	75.1	83.2
STD ERR OF P	1.2	2.7	2.8	2.0	2.1	1.7	1.5	3.3	1.1	3.4	2.8	2.2	1.5	3.7	3.5	1.6	4.9	5.1	2.1	3.1
AGE: Ad																				
DELTA-P	79.5	-3.1	4.9#	-0.2	-2.1	-2.7#	2.5#	-25.6#	4.3#	-9.7#	-5.7*	4.2#	9.8#	-12.4#	-0.9	-0.3	4.0	-8.0*	2.2	9.9#
STD ERR OF DP		2.3	1.6	1.6	1.9	1.0	0.9	4.1	0.7	1.9	2.5	1.5	1.5	3.7	2.3	1.2	3.1	5.9	2.7	2.1
P-VALUE	79.5	76.3	84.3	79.2	77.4	76.8	81.9	53.9	83.7	69.7	73.8	83.6	89.2	67.0	78.6	79.2	83.4	71.4	81.6	89.3
STD ERR OF P	1.0	2.7	1.7	1.9	2.3	1.6	1.3	4.3	0.9	2.5	2.5	1.7	1.5	3.9	2.3	1.6	3.2	4.2	3.0	1.9

RESPONSE: 3V AGE: 13 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	8.3	-0.5	0.2	-0.1	0.4	0.4	-0.4	1.7	-0.7*	3.8	1.4	0.2	-1.7*	6.4#	1.1	-0.8	1.3	-0.8	-1.7	-1.6
STD ERR OF DP		1.4	1.4	1.3	1.4	0.7	0.6	1.9	0.4	2.6	2.0	0.9	0.8	2.3	2.6	1.1	2.0	1.7	1.3	2.1
STD ERR OF P	0.8	1.5	1.7	1.5	1.7	1.1	1.0	1.9	0.9	2.7	2.3	1.2	1.0	2.5	2.7	1.5	2.1	1.7	1.2	2.3
AGE: 17																				
DELTA-P	2.0	0.4	0.2	-0.1	-0.4	0.0	0.0	2.3	-0.5*	3.6#	1.2	-0.5	-0.7*	1.0	-0.1	0.1	0.4	0.8	-1.0#	-0.6
STD ERR OF DP		0.5	0.5	0.4	0.4	0.2	0.2	1.3	0.2	1.4	0.7	0.4	0.3	1.2	0.8	0.4	0.9	1.6	0.4	0.7
STD ERR OF P	0.3	0.6	0.6	0.5	0.4	0.4	0.3	1.4	0.2	1.5	0.7	0.5	0.4	1.3	0.7	0.5	1.0	1.7	0.3	0.7
AGE: Ad																				
DELTA-P	1.7	-0.6	0.1	-0.5	0.9	-0.2	0.2	3.0*	-0.7#	1.9*	-0.2	-0.1	-1.7#	4.4*	-0.7	-0.0	-0.8	0.1	-1.0	-1.1*
STD ERR OF DP		0.6	0.6	0.5	0.8	0.4	0.3	1.5	0.3	0.8	0.8	0.5	0.4	2.0	0.6	0.5	0.8	1.2	0.7	0.5
STD ERR OF P	0.4	0.6	0.7	0.6	1.0	0.5	0.5	1.6	0.3	1.1	0.8	0.6	0.0	2.3	0.6	0.6	0.8	1.3	0.7	0.4

EXERCISE: UP01

Part E.

RESPONSE: 00 AGE: 13 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	12.5	-0.7	3.0	0.7	-3.4	1.9*	-1.7*	15.0#	-3.2#	8.3#	1.0	0.3	-5.0#	19.5#	8.2	-3.1	-4.3	-0.9	2.7	-7.3#
STD ERR OF DP		1.9	2.6	2.8	1.9	0.8	0.7	3.0	0.7	3.2	2.9	1.2	1.1	3.7	7.2	1.9	2.2	2.1	5.0	2.1
STD ERR OF P	1.4	1.6	3.2	3.7	1.8	1.8	1.4	3.1	1.6	3.6	3.0	2.1	1.5	3.8	7.9	2.2	1.9	2.1	5.6	1.8
AGE: 17																				
DELTA-P	4.3	0.5	-0.2	-0.4	0.4	0.2	-0.2	9.6#	-1.7#	0.4	1.6	-1.0	-2.1#	5.8#	2.8	-2.2*	-1.0	3.2	-0.7	-1.6
STD ERR OF DP		1.0	1.1	1.0	0.9	0.5	0.6	2.2	0.4	2.2	1.4	0.7	0.6	2.1	1.9	0.7	1.3	3.1	1.2	1.1
STD ERR OF P	0.6	1.1	1.3	1.3	0.9	0.9	0.8	2.5	0.5	2.4	1.6	0.9	0.5	2.3	2.0	0.6	1.3	3.4	1.3	1.0
AGE: Ad																				
DELTA-P	0.7	1.4	-0.6*	-0.7#	0.2	-0.2	0.2	3.9*	-0.4	0.9	-0.5	-0.2	-0.7#	0.8	-0.5	0.5	-0.3	-0.7#	-0.4	-0.7#
STD ERR OF DP		0.5	0.3	0.3	0.4	0.3	0.2	1.8	0.2	0.6	0.3	0.3	0.3	1.0	0.3	0.4	0.3	0.3	0.4	0.3
STD ERR OF P	0.3	1.1	0.1	0.0	0.4	0.3	0.4	2.1	0.1	0.8	0.3	0.3	0.0	1.1	0.2	0.6	0.2	0.0	0.4	0.0

RESPONSE: 01* AGE: 13 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	48.8	-5.1	-1.7	-0.6	6.9*	-2.8*	2.6*	-28.7#	5.9#	-15.5#	-11.8#	-1.1	10.4#	-28.1#	-12.4*	1.1	8.6*	1.6	1.4	12.6#
STD ERR OF DP		3.0	2.6	2.8	2.9	1.2	1.0	2.4	0.9	3.2	3.0	1.6	1.2	4.2	5.3	2.1	3.8	4.0	4.1	3.6
P-VALUE	48.8	43.7	47.1	48.3	55.7	46.0	51.4	20.1	54.7	33.3	37.0	47.7	59.2	20.7	36.4	49.9	57.4	50.4	50.2	61.4
STD ERR OF P	1.6	3.3	2.9	3.4	3.4	1.6	2.2	2.3	1.7	3.3	3.3	2.1	2.0	4.1	5.7	2.3	4.0	4.3	4.5	4.0

EXERCISE: UP01

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

Part I.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	75.5	-2.0	-1.0	-0.8	3.6	-2.1	2.2*	-23.3#	4.1#	-3.4	-12.1#	0.4	6.9#	-19.9#	-8.2#	6.6#	1.2	-2.7	-0.1	7.0#
STD ERR OF DP		2.3	2.0	2.0	2.1	1.0	1.1	3.1	0.8	3.5	2.3	1.7	1.3	3.5	3.3	1.4	4.4	5.5	2.3	2.3
P-VALUE	75.5	73.5	74.5	74.7	79.1	73.4	77.6	52.2	79.6	72.1	63.3	75.8	82.4	55.6	67.3	82.0	76.7	72.8	75.4	82.5
STD ERR OF P	1.2	2.5	2.3	2.5	2.3	1.6	1.6	3.5	1.2	3.5	2.6	2.4	1.4	3.7	3.4	1.5	4.8	5.8	2.1	2.2
AGE: Ad																				
DELTA-P	78.3	-2.8	3.9*	0.8	-2.5	-2.7#	2.5#	-24.2#	4.2#	-9.9#	-5.0	2.8	11.2#	-15.9#	1.1	0.3	3.9	-9.2*	2.7	9.7#
STD ERR OF DP		2.5	1.7	1.7	2.1	1.1	0.9	4.2	0.7	2.0	2.6	1.5	1.6	3.6	2.5	1.3	3.7	3.7	2.9	2.3
P-VALUE	78.3	75.5	82.2	79.1	75.8	75.6	80.8	54.1	82.5	68.4	73.3	81.1	89.5	62.4	79.4	78.6	82.2	69.1	81.0	88.0
STD ERR OF P	1.1	2.9	1.9	1.9	2.5	1.7	1.3	4.2	1.0	2.6	2.4	1.8	1.8	3.8	2.6	1.7	3.9	4.0	3.2	2.2
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	8.5	-0.3	-0.3	0.4	0.2	0.7	-0.6	1.4	-0.7	4.0	0.7	0.5	-1.7*	6.2#	0.7	-0.7	1.0	-1.0	-0.9	-1.8
STD ERR OF DP		1.4	1.4	1.3	1.4	0.7	0.6	1.9	0.4	2.6	2.0	[illegible]	0.8	2.3	2.7	1.1	2.0	1.7	1.4	2.1
STD ERR OF P	0.8	1.5	1.6	1.5	1.7	1.1	1.0	1.9	0.9	2.7	2.3	[illegible]	1.0	2.5	2.7	1.5	2.1	1.7	1.3	2.3
AGE: 17																				
DELTA-P	1.9	0.5	0.2	-0.4	-0.2	0.0	-0.0	2.2	-0.4*	3.6#	1.3	-0.7	-0.7*	0.7	-0.1	0.1	0.5	0.8	-0.9*	-0.6
STD ERR OF DP		0.5	0.5	0.4	0.4	0.2	0.2	1.3	0.2	1.4	0.7	0.4	0.3	1.1	0.8	0.4	0.9	1.6	0.4	0.7
STD ERR OF P	0.3	0.6	0.6	0.6	0.4	0.4	0.3	1.5	0.2	1.5	0.7	0.4	0.4	1.2	0.7	0.5	1.0	1.7	0.3	0.7
AGE: Ad																				
DELTA-P	1.7	-0.6	0.1	-0.7	1.2	-0.1	0.1	3.0*	-0.8#	1.8*	-0.3	-0.0	-1.7#	4.4*	-0.7	0.1	-0.8	0.0	-1.0	-1.5#
STD ERR OF DP		0.6	0.6	0.5	0.8	0.3	0.3	1.5	0.3	0.8	0.8	0.5	0.4	2.1	0.6	0.5	0.8	1.2	0.7	0.4
STD ERR OF P	0.4	0.6	0.7	0.5	1.0	0.5	0.5	1.6	0.2	1.1	0.8	0.6	0.0	2.3	0.6	0.6	0.8	1.3	0.7	0.2

Report #: UP02

NAEP #: P00002-34

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: II. Perform Mathematical Manipulations.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

		17	Adult
Age:			
Package-Exercise:		12-07	08-02
National P-value:			
	UP02	30.93	48.09

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UP02

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective II.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	1.0	-0.1	0.0	-0.1	0.1	0.3	-0.3	-0.2	-0.0	0.8	1.3	-0.7#	-0.0	-0.6	-0.6	0.0	0.7	0.4	0.6	-1.0#
STD ERR OF DP		0.3	0.4	0.4	0.4	0.2	0.2	0.4	0.1	1.1	0.8	0.2	0.2	0.4	0.4	0.3	0.6	1.0	0.8	0.2
STD ERR OF P	0.2	0.3	0.5	0.4	0.5	0.4	0.3	0.4	0.3	1.1	0.9	0.2	0.4	0.4	0.3	0.4	0.7	1.0	0.9	0.0
AGE: Ad																				
DELTA-P	0.5	0.3	0.2	-0.3	-0.0	-0.1	0.1	1.3	-0.2	1.2#	-0.5#	-0.5#	-0.4	0.4	-0.5#	-0.0	-0.2	0.9	0.2	-0.5#
STD ERR OF DP		0.4	0.3	0.2	0.3	0.1	0.1	0.9	0.1	0.4	0.2	0.2	0.2	0.5	0.2	0.2	0.3	0.9	0.5	0.2
STD ERR OF P	0.2	0.5	0.3	0.2	0.3	0.2	0.2	1.0	0.1	0.6	0.0	0.0	0.1	0.5	0.0	0.3	0.4	1.0	0.5	0.0
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	30.9	-6.2*	-0.8	2.4	3.3	-0.2	0.2	-15.6#	2.6#	-10.7#	-8.8#	-1.8	5.8#	-3.8	0.4	-1.6	1.0	-0.8	-0.4	6.8
STD ERR OF DP		2.5	2.4	1.8	1.8	1.0	1.0	2.3	0.5	3.2	3.0	1.6	1.5	3.4	3.1	1.5	3.1	4.1	2.5	3.6
P-VALUE	30.9	24.7	30.2	33.4	34.2	30.7	31.2	15.4	33.5	20.2	22.2	29.2	36.8	27.1	31.4	29.3	31.9	30.2	30.6	37.7
STD ERR OF P	1.2	3.0	2.9	2.1	1.9	1.6	1.5	2.1	1.4	3.2	2.8	2.0	2.2	3.5	3.4	1.7	3.5	4.3	2.7	4.0
AGE: Ad																				
DELTA-P	48.0	-4.2	4.3	3.8	-4.9*	2.9	-2.7	-25.9#	4.4#	-12.9#	-3.7	4.5*	12.1#	-18.4#	-9.1	1.9	4.8	-1.8	-4.7	14.9#
STD ERR OF DP		3.2	2.6	2.2	2.4	1.5	1.4	3.6	0.7	1.9	2.4	2.0	2.1	4.1	5.4	1.9	4.1	3.7	3.3	3.7
P-VALUE	48.0	43.8	52.3	51.8	43.1	50.9	45.3	22.1	52.4	35.1	44.3	52.5	60.1	29.6	38.9	[illegible]	52.8	46.2	43.3	62.9
STD ERR OF P	1.4	3.7	3.0	2.5	2.7	2.1	1.9	3.6	1.6	2.3	2.6	2.4	2.7	4.3	5.5	2.3	4.5	4.0	3.5	3.9
RESPONSE: 03 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	2.0	0.3	0.8	0.2	-1.2#	-0.3	0.3	1.0	-0.3*	2.1*	1.1	-0.0	-1.0#	2.3*	0.6	0.3	0.5	-1.0	-2.0#	-0.4
STD ERR OF DP		0.5	0.6	0.5	0.4	0.3	0.3	0.7	0.1	1.0	0.7	0.4	0.3	1.0	0.5	0.4	0.9	0.6	0.3	0.7
STD ERR OF P	0.3	0.5	0.7	0.6	0.4	0.4	0.4	0.7	0.3	1.1	0.8	0.5	0.4	1.0	0.4	0.5	1.1	0.7	0.0	0.7
AGE: Ad																				
DELTA-P	1.6	1.7	-0.6	-0.6	-0.2	-0.5	0.5	5.8#	-0.8#	1.6#	0.1	-0.2	-1.5#	4.7*	-1.6#	0.1	-0.2	-1.6#	-0.6	-0.9*
STD ERR OF DP		1.0	0.5	0.5	0.5	0.3	0.3	2.0	0.3	0.5	1.0	0.4	0.4	2.2	0.4	0.4	0.8	0.4	0.6	0.5
STD ERR OF P	0.4	1.2	0.6	0.6	0.6	0.4	0.6	2.2	0.2	0.7	1.1	0.6	0.1	[illegible]	0.0	0.5	0.9	0.0	0.6	0.5

Report #: UP03

NAEP #: P10001-34

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

		17	Adult
Age:			
Package-Exercise:		14-09	08-12
National P-value:			
	UP03D	1.10	15.62

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UP03

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	12.4	1.4	-2.5	-3.3	5.2	-0.5	0.4	2.7	-0.3	7.4*	2.2	1.1	-2.4*	-1.4	-3.1	0.9	-2.9	0.2	0.2	3.3
STD ERR OF DP		1.8	1.8	1.7	3.2	0.8	0.7	2.1	0.4	2.9	1.7	1.4	0.8	2.2	3.1	1.8	1.6	4.5	3.3	5.0
STD ERR OF P	1.3	1.7	1.8	1.8	4.1	1.4	1.6	1.8	1.5	3.0	1.8	2.2	1.5	2.0	3.1	2.3	1.4	4.4	3.6	5.6
AGE: Ad																				
DELTA-P	6.4	2.3	-1.1	-0.2	-0.7	-0.4	0.4	14.8*	-2.6*	5.0*	1.7	-4.0*	-4.3*	11.1*	0.4	-0.8	-2.3	-2.6	2.1	-4.6*
STD ERR OF DP		1.8	1.6	1.6	1.2	0.7	0.6	3.8	0.6	1.5	1.5	0.9	0.8	3.6	1.8	1.0	2.1	2.0	3.9	1.1
STD ERR OF P	0.9	2.0	1.8	2.1	1.2	1.1	1.1	3.9	0.9	2.1	1.6	0.7	0.8	3.9	1.8	1.2	2.1	2.0	4.4	0.8
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	1.1	0.3	0.1	0.1	-0.5	-0.4	0.3	-1.1*	0.2*	-0.4	0.6	-0.1	0.0	1.3	-0.2	-0.0	0.5	-1.0*	-1.0*	0.5
STD ERR OF DP		0.6	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.6	1.0	0.4	0.3	1.2	0.6	0.3	0.9	0.2	0.3	0.7
P-VALUE	1.1	1.4	1.2	1.2	0.6	0.8	1.4	-0.0	1.3	0.7	1.7	1.0	1.1	2.4	0.9	1.1	1.6	0.1	0.1	1.6
STD ERR OF P	0.2	0.7	0.4	0.4	0.4	0.3	0.4	0.0	0.3	0.6	1.1	0.5	0.4	1.3	0.6	0.4	1.0	0.1	0.1	0.7
AGE: Ad																				
DELTA-P	15.6	-0.6	2.8	3.5	-6.7*	-1.2	1.1	-13.7*	2.2*	-6.7*	-1.8	-0.2	9.7*	-10.9*	-2.5	2.2	1.9	-0.5	-1.7	3.3
STD ERR OF DP		3.2	1.8	2.0	1.6	0.9	0.9	1.4	0.3	1.3	2.1	1.3	1.7	1.9	2.4	1.6	4.4	4.4	2.5	3.6
P-VALUE	15.6	15.0	18.4	19.1	9.0	14.5	16.7	1.9	17.8	8.9	13.8	15.4	25.3	4.7	13.2	17.8	17.5	15.1	13.9	18.9
STD ERR OF P	1.2	3.9	2.0	2.4	1.3	1.3	1.7	1.2	1.4	1.6	2.4	1.5	2.5	1.8	2.1	1.9	5.0	4.8	2.5	3.9
RESPONSE: 03 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	31.2	-1.8	-4.9	1.2	5.1*	-0.2	0.2	5.9	-2.2*	4.5	5.9	1.2	-6.3*	14.8*	-5.3	-0.3	-1.0	3.4	-0.5	-7.2*
STD ERR OF DP		2.2	2.5	2.3	2.3	1.3	1.2	3.0	0.7	4.2	3.4	2.1	1.5	3.9	3.7	1.6	3.8	4.1	3.3	3.0
STD ERR OF P	1.4	2.2	3.0	2.8	2.7	2.1	1.8	3.0	1.6	4.3	3.3	2.6	2.0	4.0	3.8	2.1	4.4	4.3	3.4	3.4
AGE: Ad																				
DELTA-P	13.1	0.0	0.6	-2.4	2.2	-0.2	0.2	15.9*	-2.2*	4.4*	-0.1	-1.5	-4.9*	15.9*	-5.3*	-2.1	5.4	0.5	-2.3	-5.5*
STD ERR OF DP		1.8	1.6	1.5	1.8	1.0	1.0	4.2	0.5	1.9	1.7	1.3	1.4	4.1	2.5	1.2	4.5	4.2	2.0	1.6
STD ERR OF P	1.0	2.0	1.8	1.8	2.1	1.5	1.2	4.4	1.0	2.3	1.9	1.6	1.5	4.3	2.5	1.3	4.9	4.4	2.1	1.7

Report #: UP04

NAEP #: P20003-34

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: V. Using Mathematics and Mathematical Reasoning To Analyze Problem Situations, Define Problems, Formulate Hypotheses, Make Decisions, and Verify Results.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		17	Adult
Package-Exercise:		14-05	04-05
National P-value:			
	UP04	40.13	45.28
	UP04A	65.57	75.45
	UP04B	62.76	66.37
	UP04C	55.12	59.33
	UP04G	58.83	64.04
	UP04H	31.05	33.89

Timing: No paced tape was used in this individually administered exercise.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: UP04

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective V.

Part 1.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.4	-0.1	0.0	-0.2	0.3	0.2	-0.1	-0.0	-0.0	0.1	-0.2	-0.4*	0.3	0.9	-0.3	-0.2	-0.4#	-0.2	-0.1	1.1
STD ERR OF DP		0.2	0.2	0.2	0.3	0.1	0.1	0.2	0.1	0.5	0.2	0.2	0.2	0.6	0.2	0.2	0.1	0.3	0.2	0.8
STD ERR OF P	0.1	0.2	0.3	0.2	0.4	0.2	0.2	0.2	0.2	0.5	0.2	0.1	0.3	0.7	0.1	0.2	0.0	0.2	0.2	0.9
AGE: Ad																				
DELTA-P	0.4	0.4	0.1	-0.1	-0.4#	-0.3	0.2	-0.4#	0.0	0.1	-0.4#	0.1	-0.2	-0.4#	0.5	0.3	-0.0	-0.4#	-0.4#	-0.4#
STD ERR OF DP		0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.2	0.1	0.1	0.6	0.2	0.3	0.1	0.1	0.1
STD ERR OF P	0.1	0.5	0.3	0.2	0.0	0.1	0.3	0.0	0.2	0.3	0.0	0.3	0.2	0.0	0.6	0.3	0.4	0.0	0.0	0.0
RESPONSE: 02* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	40.1	-4.5	-3.1	9.3#	-3.3	1.4	-1.3	-12.7#	2.2#	-14.0#	-1.1	1.0	3.0	-9.6*	1.0	1.4	1.1	-1.4	-0.8	3.0
STD ERR OF DP		2.5	2.7	1.8	2.1	1.5	1.4	3.3	0.6	3.6	3.4	2.1	1.8	4.0	3.6	2.0	3.7	3.6	3.6	4.1
P-VALUE	40.1	35.6	37.0	49.4	36.9	41.6	38.8	27.5	42.3	26.2	39.0	41.1	43.1	30.5	41.2	41.5	41.3	38.7	39.4	43.2
STD ERR OF P	1.3	2.8	3.4	1.9	2.2	2.1	1.7	3.6	1.5	3.9	3.3	2.6	2.4	4.3	4.1	2.5	3.6	3.6	3.8	4.5
AGE: Ad																				
DELTA-P	45.3	-4.5	-2.4	4.6	1.3	9.4#	-8.7#	-21.3#	3.3#	-3.2	-4.9	4.3*	5.0*	-14.7#	-5.9	2.6	-3.2	5.6	6.4	0.7
STD ERR OF DP		3.0	2.3	2.8	2.3	1.3	1.2	4.3	0.7	2.4	2.9	2.1	2.2	3.0	4.2	2.2	5.9	3.8	3.8	4.3
P-VALUE	45.3	40.8	42.9	49.9	46.6	54.7	36.6	24.0	48.5	42.1	40.4	49.6	50.3	30.6	39.4	47.9	42.1	50.9	51.6	45.9
STD ERR OF P	1.6	3.5	2.5	3.6	2.4	2.2	1.8	4.6	1.6	2.5	3.4	2.6	2.8	3.4	4.3	2.4	6.2	3.9	3.8	4.9
RESPONSE: 09 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	0.5	-0.4#	-0.1	0.1	0.3	-0.1	0.1	-0.4*	-0.1	0.2	-0.5#	-0.2	-0.5#	1.4	-0.5#	-0.1	0.3	0.7	-0.5#	-0.5#
STD ERR OF DP		0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.6	0.1	0.2	0.1	0.8	0.1	0.2	0.5	0.6	0.1	0.1
STD ERR OF P	0.1	0.1	0.3	0.4	0.2	0.2	0.3	0.1	0.2	0.7	0.0	0.2	0.0	0.8	0.0	0.3	0.5	0.6	0.0	0.0
AGE: Ad																				
DELTA-P	0.6	-0.2	-0.1	-0.5#	0.8#	-0.1	0.1	0.3	-0.3#	0.3	0.7	-0.6#	-0.3	1.2	-0.4	0.0	-0.6#	0.6	-0.1	-0.4
STD ERR OF DP		0.2	0.2	0.2	0.3	0.2	0.2	0.8	0.1	0.4	0.5	0.1	0.2	0.8	0.2	0.2	0.1	1.1	0.4	0.2
STD ERR OF P	0.1	0.3	0.3	0.1	0.4	0.2	0.2	0.8	0.1	0.4	0.6	0.0	0.2	0.9	0.2	0.2	0.0	1.1	0.5	0.2

EXERCISE: UP04

Part A.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.1	0.3	-0.1	-0.1	-0.1	-0.1	0.1	0.4	-0.1	0.4	0.1	-0.1	-0.1	0.4	0.0	-0.0	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.5	0.2	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.5	0.2	0.0	0.0	0.5	0.1	0.1	0.0	0.0	0.0	0.0
AGE: Ad																				
Response did not occur at this age.																				
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	65.6	-6.1*	0.3	4.9*	-0.6	4.5#	-4.2#	-24.6#	4.3#	-17.5#	-6.6*	0.5	6.1#	-11.0*	-7.7	2.5	-2.2	1.3	-0.9	9.5#
STD ERR OF DP		2.5	2.0	2.0	1.9	1.2	1.1	4.1	0.8	4.0	2.7	1.9	1.5	4.7	4.8	1.7	3.2	4.6	3.0	2.7
P-VALUE	65.6	59.4	65.9	70.4	65.0	70.1	61.4	41.0	69.9	48.1	58.9	66.0	71.6	54.6	57.9	68.1	63.4	66.8	64.6	75.0
STD ERR OF P	1.2	2.8	2.3	2.4	2.2	1.5	1.8	4.3	1.4	4.4	2.6	2.4	1.7	4.9	5.2	2.0	3.2	4.8	3.3	2.5
AGE: Ad																				
DELTA-P	75.5	-2.4	-2.4*	0.9	3.8	5.3#	-4.9#	-28.6#	4.3#	-8.8#	0.8	4.2#	7.0#	-16.1#	0.7	-0.3	-1.8	3.3	3.5	8.9#
STD ERR OF DP		3.0	3.3	2.3	2.2	1.0	0.9	4.1	0.7	2.3	2.1	1.7	1.9	5.5	3.2	1.6	4.1	3.7	5.0	2.7
P-VALUE	75.5	73.0	73.1	76.3	79.2	80.7	70.6	46.8	79.8	66.7	76.2	79.7	82.4	59.4	76.1	75.2	73.6	78.8	79.0	84.4
STD ERR OF P	1.6	3.3	4.1	2.5	2.2	1.7	1.9	4.1	1.6	3.0	2.6	2.3	2.1	5.7	3.1	2.1	4.7	3.4	5.5	2.9

EXERCISE: UP04

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective V.

Part A.

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.5	-0.5	0.1	-0.4	0.8	-1.2#	1.1#	3.8#	-0.8#	3.8#	2.2*	-0.4	-1.4#	5.5#	-1.5*	-0.1	0.5	-1.0	-0.4	-2.1#
STD ERR OF DP		0.6	0.7	0.6	0.6	0.4	0.4	1.3	0.2	1.5	0.9	0.7	0.4	2.0	0.7	0.5	0.8	0.8	1.2	0.6
STD ERR OF P	0.4	0.5	0.9	0.8	0.7	0.4	0.6	1.4	0.4	1.6	0.9	0.8	0.5	2.2	0.7	0.6	0.8	0.7	1.3	0.4

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.7	0.9	-0.5	-0.1	-0.1	-0.9	0.8	8.3#	-1.3#	0.7	1.0	-2.1#	-1.7#	6.8*	-0.8	-0.5	-0.6	3.1	-2.2#	-2.4#
STD ERR OF DP		1.2	0.9	0.8	0.6	0.5	0.5	3.1	0.4	0.8	0.9	0.5	0.6	3.2	0.8	0.6	1.2	2.0	0.6	0.5
STD ERR OF P	0.5	1.5	1.0	0.9	0.5	0.7	0.7	3.5	0.3	0.9	1.0	0.3	0.4	3.6	0.7	0.5	1.2	2.2	0.5	0.2

EXERCISE: UP04

Part B.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.1	0.2	-0.1	-0.1	0.0	-0.0	0.0	0.6	-0.1	0.4	0.2	-0.1	-0.1	0.7	0.0	-0.1	-0.1	-0.1	-0.1	-0.1
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.5	0.2	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.0	0.0	0.1	0.1	0.1	0.4	0.0	0.5	0.3	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.0	0.2	-0.0	-0.0	-0.0	-0.0	0.0	0.4	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	62.8	-12.8#	1.3	6.2#	2.3	0.3	-0.2	-24.5#	4.1#	-17.8#	-8.4#	-0.7	7.5#	-16.8#	-3.9	-2.0	4.1	-0.8	2.8	14.3#
STD ERR OF DP		2.4	2.3	1.8	2.2	1.2	1.1	2.9	0.7	4.0	2.7	1.9	1.4	4.3	4.0	1.6	2.9	3.8	2.9	3.1
P-VALUE	62.8	49.9	64.1	69.0	65.1	63.0	62.5	38.3	66.9	44.9	54.4	62.1	70.3	45.9	58.8	60.8	66.8	62.0	65.5	77.1
STD ERR OF P	1.2	2.6	2.8	2.0	2.7	1.9	1.4	2.8	1.4	4.2	2.9	2.0	2.1	4.4	5.1	1.8	3.0	3.9	3.1	3.4

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	66.4	-4.3	-1.2	-0.2	5.5*	3.6#	-3.4#	-24.5#	3.7#	-1.8	-3.9	2.7	5.8#	-17.8#	2.7	2.0	-7.5#	-0.3	-0.4	13.6#
STD ERR OF DP		2.6	3.5	2.5	2.4	1.1	1.1	3.6	0.7	2.2	2.9	1.9	2.3	4.2	4.2	1.7	2.8	4.5	5.6	2.5
P-VALUE	66.4	62.1	65.1	66.2	71.9	70.0	63.0	41.9	70.0	64.5	62.4	69.0	72.1	48.6	69.0	68.3	58.9	66.0	66.0	79.9
STD ERR OF P	1.7	2.7	4.5	2.9	2.4	2.0	2.0	3.7	1.7	3.0	3.5	2.3	2.5	4.5	4.4	2.0	2.9	4.6	6.5	2.6

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	2.7	-0.3	0.9	-1.2	0.6	-1.5#	1.4#	3.6#	-0.9#	2.7	3.0*	-0.4	-1.7#	4.8*	-0.4	0.2	0.1	-1.2	-0.7	-2.8#
STD ERR OF DP		0.6	0.9	0.6	0.7	0.4	0.4	1.3	0.3	1.6	1.3	0.7	0.4	2.0	1.3	0.6	0.8	0.8	1.2	0.6
STD ERR OF P	0.4	0.6	1.1	0.7	0.8	0.4	0.7	1.4	0.4	1.8	1.3	0.9	0.5	2.1	1.4	0.7	0.8	0.7	1.3	0.4

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.0	0.9	-0.0	-0.2	-0.5	-0.9	0.8	7.6*	-1.3#	0.8	1.0	-2.4#	-1.6#	6.1	-0.4	-0.1	-0.2	2.1	-2.5#	-2.0#
STD ERR OF DP		1.2	0.9	0.8	0.6	0.5	0.5	3.1	0.4	0.8	1.0	0.5	0.6	3.2	0.9	0.6	1.3	1.9	0.6	0.5
STD ERR OF P	0.5	1.5	1.1	0.9	0.5	0.7	0.7	3.5	0.3	0.9	1.0	0.3	0.6	3.5	0.8	0.7	1.3	2.0	0.5	0.2

EXERCISE: UP04

Part C.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.2	0.4	-0.1	-0.1	-0.1	-0.0	0.0	0.6	-0.1	0.4	0.1	-0.1	-0.0	0.6	-0.1	0.1	-0.2#	-0.2#	0.0	-0.2#
STD ERR OF DP		0.2	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.5	0.2	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.2	0.1
STD ERR OF P	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.5	0.3	0.1	0.1	0.6	0.1	0.1	0.0	0.0	0.2	0.0

AGE: Ad

Response did not occur at this age.

EXERCISE: UP08

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective V.

Part C.

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	55.1	-11.2#	2.6	2.5	3.7	4.7#	-4.3#	-22.4#	3.9#	-17.8#	-12.2#	-2.9	9.9#	-12.6#	-7.0	0.1	-0.9	-5.7	6.0	12.0#
STD ERR OF DP		2.3	2.3	2.4	2.3	1.1	1.1	3.0	0.6	4.0	2.8	2.0	1.3	3.9	6.5	1.7	2.9	4.7	3.5	4.2
P-VALUE	55.1	43.9	57.7	57.7	58.8	59.8	50.8	32.7	59.0	37.4	43.0	52.2	65.0	42.5	48.2	55.3	54.2	49.4	61.1	67.1
STD ERR OF P	1.4	2.4	2.6	3.0	2.6	1.8	1.7	2.8	1.5	4.1	3.1	2.5	1.8	3.9	6.9	1.9	3.1	4.8	3.6	4.7

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	59.3	-3.5	0.0	-1.6	5.1#	4.1#	-3.9#	-26.4#	3.9#	-7.9#	-2.7	4.1*	8.0#	-14.9#	-1.4	5.4#	-6.3	-4.2	2.6	1.7
STD ERR OF DP		3.2	2.2	2.5	2.0	1.3	1.3	3.8	0.7	2.5	2.7	1.9	2.2	4.3	2.6	1.8	4.8	4.0	4.2	3.1
P-VALUE	59.3	55.8	59.4	57.7	64.4	63.5	55.5	33.0	63.3	51.4	56.7	63.4	67.4	44.4	57.9	64.8	53.0	55.2	61.9	61.0
STD ERR OF P	1.4	3.8	2.4	3.2	2.0	1.8	2.0	4.3	1.4	3.1	3.2	2.0	2.5	4.5	2.7	2.1	4.9	4.4	4.7	3.4

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.3	-0.2	1.0	-1.1	0.3	-1.3#	1.2#	3.4*	-1.0#	3.0	3.8#	-0.7	-1.7#	7.0#	-0.7	-0.1	0.3	-1.0	-1.8	-1.9
STD ERR OF DP		0.9	1.0	0.7	0.7	0.5	0.4	1.4	0.3	1.6	1.3	0.7	0.5	2.1	1.4	0.6	1.0	1.1	1.2	1.0
STD ERR OF P	0.5	1.0	1.2	0.7	0.8	0.4	0.8	1.5	0.5	1.8	1.4	0.9	0.6	2.3	1.5	0.8	1.1	1.2	1.3	1.0

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.4	1.0	-0.4	-0.2	-0.2	-0.8	0.8	7.2*	-1.2#	0.5	1.0	-2.1#	-1.8*	5.7	-0.8	-0.1	0.1	1.2	-1.9*	-2.7#
STD ERR OF DP		1.3	0.9	0.8	0.7	0.6	0.5	3.2	0.4	0.8	1.0	0.6	0.7	3.2	0.9	0.6	1.3	1.9	0.9	0.7
STD ERR OF P	0.5	1.6	1.1	0.9	0.5	0.8	0.8	3.6	0.3	0.9	1.0	0.5	0.6	3.5	0.9	0.7	1.3	2.0	0.8	0.5

EXERCISE: UP08

Part G.

RESPONSE: 00 AGE: 17 TEXT: No Response.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.7	-0.3	-0.5*	0.9#	-0.3	0.4*	-0.3*	1.0#	-0.1#	-0.5*	-0.3	0.6*	-0.2	2.1#	0.9	-0.4*	-0.5#	0.1	0.2	-0.7#
STD ERR OF DP		0.2	0.2	0.4	0.2	0.2	0.2	0.3	0.1	0.2	0.3	0.3	0.2	0.6	1.0	0.2	0.2	0.8	0.4	0.2
STD ERR OF P	0.2	0.2	0.2	0.5	0.2	0.3	0.1	0.2	0.2	0.2	0.3	0.4	0.2	0.6	1.1	0.2	0.1	0.8	0.5	0.0

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	0.2	0.3	-0.1	0.0	-0.2	-0.1	0.1	0.9	-0.1	0.1	0.4	-0.2	-0.2	0.5	0.6	-0.0	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.2	0.1	0.2	0.1	0.1	0.1	0.7	0.1	0.2	0.4	0.1	0.1	0.6	0.4	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.1	0.2	0.0	0.1	0.2	0.8	0.1	0.2	0.4	0.0	0.0	0.6	0.5	0.1	0.0	0.0	0.0	0.0

RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	58.8	-9.7#	-0.1	4.0#	3.4	3.8#	-3.5#	-26.8#	5.2#	-21.9#	-12.4#	-1.4	11.1#	-12.7#	-9.2	2.8	-3.9	-5.2	0.5	15.4#
STD ERR OF DP		2.4	2.3	1.6	1.8	1.4	1.3	3.1	0.7	4.6	2.5	2.0	1.3	4.6	5.2	1.6	2.8	3.8	2.7	3.4
P-VALUE	58.8	49.2	58.7	62.9	62.2	62.6	55.3	32.0	64.0	36.9	46.4	57.5	69.9	46.2	49.6	61.7	55.0	53.6	59.4	74.3
STD ERR OF P	1.1	2.7	2.8	1.7	2.0	1.9	1.6	3.1	1.2	4.7	2.5	2.2	1.8	4.4	5.3	2.0	3.1	3.8	2.8	3.5

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	64.0	-2.2	-1.7	2.2	1.3	8.9#	-8.4#	-33.7#	5.1#	-8.8#	-4.1	3.2	11.3#	-19.0#	0.5	2.7	-0.9	0.2	-1.6	8.0*
STD ERR OF DP		2.5	3.1	2.4	2.6	1.3	1.2	4.0	0.7	2.8	2.7	2.1	2.1	5.3	3.9	1.7	4.2	4.7	4.9	3.6
P-VALUE	64.0	61.8	62.3	66.2	65.4	73.0	55.7	30.3	69.1	55.3	60.0	67.2	75.4	45.1	64.5	66.8	63.2	64.2	62.4	72.1
STD ERR OF P	1.6	2.5	3.9	2.9	2.9	2.0	2.0	3.9	1.5	3.0	3.0	2.7	2.3	5.6	3.9	2.4	4.7	4.7	5.2	3.4

RESPONSE: 03 AGE: 17 TEXT: I Don't Know.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	7.6	1.1	-0.1	-0.5	-0.3	-1.3*	1.2*	3.0	-1.1#	4.9*	5.1#	0.2	-3.7#	5.9#	-1.3	-0.4	-1.3	4.2	1.7	-6.1#
STD ERR OF DP		1.5	0.8	1.0	1.2	0.6	0.6	1.7	0.3	2.2	1.7	1.1	0.7	1.9	1.8	1.0	1.2	3.2	1.5	1.0
STD ERR OF P	0.7	1.8	0.7	1.2	1.5	0.9	0.9	2.0	0.7	2.4	1.9	1.4	0.5	1.9	1.8	1.3	1.1	3.4	1.6	0.8

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	7.0	-0.7	2.4	0.3	-2.4#	-3.2#	3.0#	10.6#	-1.7#	5.3*	2.3	-2.3	-4.8#	4.5*	0.6	-0.4	-2.0	0.4	-1.1	0.0
STD ERR OF DP		1.2	1.4	1.1	0.9	0.6	0.6	3.0	0.4	2.2	1.7	1.2	0.9	2.3	1.5	0.8	1.9	2.3	1.7	2.8
STD ERR OF P	0.7	1.3	1.8	1.2	0.9	0.7	1.0	3.2	0.7	2.6	1.8	1.0	0.8	2.4	1.6	0.9	2.0	2.4	1.8	3.1

EXERCISE: UP04

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective V.

Part U.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.9	0.2	-0.4	0.6	-0.4	0.5*	-0.4*	1.0#	-0.1*	-0.0	0.3	0.5	-0.4*	2.0#	0.3	-0.3	-0.5	-0.1	-0.0	-0.9#
STD ERR OF DP		0.4	0.3	0.4	0.3	0.2	0.2	0.3	0.1	0.7	0.5	0.3	0.2	0.8	0.8	0.3	0.3	0.7	0.4	0.2
STD ERR OF P	0.2	0.5	0.3	0.5	0.2	0.4	0.2	0.3	0.2	0.7	0.6	0.4	0.2	0.9	0.9	0.3	0.3	0.8	0.5	0.0
AGE: Ad																				
DELTA-P	0.2	0.2	0.1	-0.0	-0.2*	-0.2	0.1	0.9	-0.1	0.1	0.4	-0.1	-0.2*	1.0	0.5	-0.1	-0.2*	-0.2*	-0.2*	-0.2*
STD ERR OF DP		0.2	0.2	0.2	0.1	0.1	0.1	0.7	0.1	0.2	0.4	0.2	0.1	0.7	0.4	0.1	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.2	0.2	0.0	0.1	0.2	0.8	0.1	0.2	0.4	0.2	0.0	0.8	0.5	0.1	0.0	0.0	0.0	0.0
RESPONSE: 01* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	31.1	-11.5#	2.6	5.7#	0.4	3.0*	-2.8*	-22.9#	3.8#	-19.0#	-14.7#	-2.6	10.8#	-12.4#	-1.4	2.2	-1.3	-1.9	-2.7	10.2*
STD ERR OF DP		1.8	3.1	1.9	2.7	1.2	1.2	2.3	0.5	2.7	2.7	1.8	1.4	2.9	5.1	2.1	2.9	3.3	2.8	4.2
P-VALUE	31.1	19.5	33.7	36.7	31.5	34.1	28.3	8.2	34.9	12.1	16.3	28.4	41.8	18.6	29.6	33.3	29.7	29.2	28.4	41.2
STD ERR OF P	1.5	1.4	4.0	1.8	3.3	2.0	1.7	1.8	1.6	2.3	2.7	2.1	2.4	2.4	5.3	2.9	3.3	3.2	2.6	4.5
AGE: Ad																				
DELTA-P	33.9	-3.6	0.5	4.2	-2.3	8.4#	-7.9#	-25.6#	4.3#	-8.5#	-4.5	0.5	15.1#	-18.6#	0.7	1.3	4.9	0.5	-3.6	8.0#
STD ERR OF UP		3.1	3.9	2.6	2.6	1.1	1.1	2.4	0.6	2.3	3.4	1.9	2.5	3.2	4.7	1.5	4.3	4.7	4.8	3.2
P-VALUE	33.9	30.3	34.4	38.1	31.6	42.3	26.0	8.3	38.2	25.4	29.4	34.4	49.0	15.3	34.6	35.2	38.8	34.4	30.3	41.9
STD ERP OF P	1.8	3.2	5.1	2.8	2.6	2.4	1.8	2.0	1.9	3.4	3.8	2.3	2.9	3.0	5.0	2.6	5.1	4.6	5.2	3.0
RESPONSE: 03 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	11.4	0.3	-0.6	0.5	-0.2	-1.4	1.3	6.2*	-1.6#	2.9	9.0#	-0.5	-4.3#	6.7#	-3.8*	-1.2	-0.3	6.9	3.2	-7.3#
STD ERR OF DP		1.8	1.2	1.5	1.7	0.9	0.8	2.8	0.4	2.1	2.2	1.3	0.9	2.5	1.9	1.1	1.9	3.8	2.4	1.5
STD ERR OF P	0.9	2.0	1.2	1.8	2.1	1.3	1.1	3.2	0.9	2.4	2.5	1.7	0.8	2.6	1.9	1.5	1.9	4.1	2.6	1.2
AGE: Ad																				
DELTA-P	12.7	-0.2	3.1	0.4	-3.7*	-4.8#	4.5#	7.2*	-1.5#	7.2#	2.2	-1.9	-7.1#	7.9#	4.5	-0.6	-4.2*	-1.6	-2.1	-0.2
STD ERR OF DP		1.5	2.0	1.3	1.5	0.8	0.7	3.0	0.5	2.2	2.1	1.6	1.2	2.6	3.1	1.0	1.8	3.0	2.3	3.5
STD ERR OF P	0.9	1.6	2.6	1.3	1.7	0.9	1.3	3.2	1.0	2.8	2.4	1.4	1.3	2.8	3.2	1.2	2.0	3.0	2.5	3.9

Report #: UP05

NAEP #: P20004-4

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		Adult
Package-Exercise:		08-06
National P-value:		
	UP05D	86.53
	UP05E	66.95
	UP05F	90.21

Timing: No paced tape was used in this individually administered exercise.

EXERCISE: UP05

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

Part D.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: Ad TEXT: No Response.																				
DELTA-P	1.9	0.6	-0.2	0.2	-0.6	0.8*	-0.8*	6.9#	-0.9#	2.3#	-0.5	-0.4	-1.4#	1.1	0.9	-0.2	-0.3	2.6	-0.5	-1.7#
STD ERR OF DP		0.7	0.6	0.5	0.6	0.3	0.3	1.9	0.2	0.6	0.8	0.4	0.4	1.6	1.8	0.4	0.8	2.2	0.8	0.4
STD ERR OF P	0.3	0.9	0.7	0.6	0.7	0.6	0.3	2.2	0.3	0.8	0.8	0.6	0.3	1.6	2.0	0.5	0.8	2.3	0.8	0.2
RESPONSE: 01* AGE: Ad TEXT: All Acceptable Responses.																				
DELTA-P	86.5	-3.9*	0.9	2.4	-0.1	-2.1#	1.9#	-25.9#	3.8#	-6.3#	-0.4	1.2	6.2#	-15.1#	-3.6	1.4	-1.0	0.7	1.0	8.7#
STD ERR OF DP		1.9	1.7	1.5	1.8	0.8	0.8	4.1	0.6	1.4	1.7	1.2	1.0	3.2	3.2	1.2	2.0	3.3	2.3	1.5
P-VALUE	86.5	82.6	87.4	88.9	86.4	84.5	88.5	60.6	90.3	80.2	86.2	87.7	92.8	71.4	82.9	88.0	85.6	87.3	87.6	95.3
STD ERR OF P	1.0	2.0	1.9	1.7	2.2	1.3	1.2	4.5	0.8	1.9	2.1	1.4	1.2	3.4	3.3	1.4	2.2	3.6	2.6	1.6
RESPONSE: 03 AGE: Ad TEXT: I Don't Know.																				
DELTA-P	0.4	0.8	-0.2	-0.4	-0.1	0.0	-0.0	0.5	-0.3	0.4	0.2	-0.4	-0.4	-0.4	-0.0	-0.1	0.3	-0.4	1.0	-0.4
STD ERR OF DP		0.6	0.2	0.2	0.3	0.2	0.2	0.6	0.2	0.5	0.4	0.2	0.2	0.2	0.3	0.2	0.5	0.2	1.2	0.2
STD ERR OF P	0.2	0.8	0.2	0.0	0.3	0.2	0.3	0.6	0.1	0.6	0.4	0.0	0.0	0.0	0.3	0.2	0.5	0.0	1.3	0.0

EXERCISE: UP05

Part E.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: Ad TEXT: No Response.																				
DELTA-P	2.9	0.8	-1.3*	0.1	0.5	1.2#	-1.1#	10.7#	-1.3#	3.1#	-0.4	-1.0	-2.4#	3.9	1.7	-0.2	-1.1	1.7	-1.6*	-2.2#
STD ERR OF DP		0.9	0.6	0.8	0.8	0.4	0.4	2.7	0.3	0.9	1.0	0.6	0.5	2.0	1.6	0.5	1.1	2.2	0.7	0.6
STD ERR OF P	0.4	1.0	0.5	1.0	0.9	0.7	0.5	2.9	0.3	1.1	1.2	0.7	0.3	2.2	1.6	0.7	1.1	2.4	0.8	0.5
RESPONSE: 01* AGE: Ad TEXT: All Acceptable Responses.																				
DELTA-P	67.0	-4.0	0.5	0.7	2.2	3.5#	-3.3#	-26.5#	4.0#	-9.7#	-5.0	3.2	11.0#	-9.7#	-9.8#	2.5	-5.0	0.9	-2.5	11.8#
STD ERR OF DP		2.8	2.2	2.2	1.8	1.2	1.2	3.9	0.6	2.1	2.8	1.8	2.3	3.6	2.9	1.5	4.5	4.9	3.2	3.8
P-VALUE	67.0	62.9	67.5	67.7	69.1	70.5	63.7	40.5	71.0	57.3	62.0	70.2	77.9	57.2	57.2	69.5	62.0	67.9	64.4	78.7
STD ERR OF P	1.3	3.2	2.5	2.7	1.9	2.0	1.4	4.3	1.3	2.3	2.8	2.3	2.7	3.8	2.9	1.7	5.0	5.3	3.2	4.0
RESPONSE: 03 AGE: Ad TEXT: I Don't Know.																				
DELTA-P	0.7	1.0	0.2	-0.6*	-0.4	-0.2	0.1	0.5	-0.2	0.4	0.0	-0.5	0.0	-0.4	1.1	-0.4	0.4	-0.7#	1.9	-0.7#
STD ERR OF DP		0.7	0.5	0.3	0.3	0.3	0.2	0.7	0.2	0.5	0.5	0.3	0.5	0.4	1.2	0.3	0.6	0.3	1.6	0.3
STD ERR OF P	0.3	0.9	0.6	0.1	0.3	0.3	0.4	0.7	0.2	0.7	0.4	0.2	0.6	0.3	1.3	0.2	0.6	0.0	1.8	0.0

EXERCISE: UP05

Part F.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: Ad TEXT: No Response.																				
DELTA-P	2.0	0.3	-0.5	-0.7	0.9	0.7	-0.6	6.3#	-0.8#	2.1#	-1.1	-0.4	-1.6#	1.6	1.0	0.1	0.2	1.1	-2.0#	-1.3*
STD ERR OF DP		0.7	0.5	0.6	0.8	0.4	0.3	2.3	0.3	0.8	0.7	0.5	0.4	1.3	1.7	0.5	1.0	1.8	0.4	0.6
STD ERR OF P	0.4	0.8	0.5	0.6	1.0	0.6	0.5	2.6	0.3	1.0	0.7	0.6	0.3	1.5	1.8	0.6	1.1	1.9	0.0	0.5
RESPONSE: 01* AGE: Ad TEXT: All Acceptable Responses.																				
DELTA-P	90.2	-5.2#	1.9	1.9	0.4	-1.8	1.7	-16.7#	2.9#	-7.6#	-0.4	2.3	6.0#	-15.3#	-3.8	0.7	2.6	2.8	1.0	6.7#
STD ERR OF DP		1.8	1.2	1.5	1.3	0.9	0.8	3.3	0.6	1.8	2.0	1.2	1.1	3.0	4.3	1.0	1.9	3.0	2.2	1.1
P-VALUE	90.2	85.1	92.1	92.1	90.6	88.4	91.9	73.5	93.1	82.6	89.8	92.6	96.2	74.9	86.4	91.0	92.8	93.0	91.2	97.0
STD ERR OF P	0.9	2.2	1.2	1.8	1.4	1.5	0.9	3.7	0.8	2.3	2.1	1.3	1.1	3.3	4.6	1.1	1.8	3.2	2.3	1.0
RESPONSE: 03 AGE: Ad TEXT: I Don't Know.																				
DELTA-P	0.6	1.0	0.2	-0.6*	-0.4	-0.1	0.1	0.3	-0.2	0.5	-0.1	-0.6*	0.1	-0.6*	1.2	-0.3	-0.0	-0.6*	2.0	-0.6*
STD ERR OF DP		0.7	0.5	0.3	0.3	0.2	0.2	0.6	0.2	0.5	0.4	0.3	0.5	0.3	1.2	0.3	0.5	0.3	1.6	0.3
STD ERR OF P	0.3	0.9	0.6	0.0	0.3	0.3	0.4	0.6	0.2	0.7	0.4	0.0	0.6	0.0	1.3	0.2	0.5	0.0	1.8	0.0

Report #: UP06

NAEP #: P70002-8

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

Age:		Adult
Package-Exercise:		02-05
National P-value:		
	UP06	27.11

Timing: (in seconds)
UP06 Exercise total: *

*Time not limited by paced tape.

EXERCISE: UP06

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CITY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: Ad	TEXT: No Response.																			
DELTA-P	0.4	1.1	-0.3	-0.3	-0.3	0.1	-0.1	0.3	-0.0	-0.1	-0.4	0.5	-0.4	-0.4	0.4	-0.2	0.2	-0.4	1.5	-0.4
STD ERR OF DP		0.8	0.3	0.2	0.2	0.2	0.2	0.5	0.1	0.3	0.2	0.5	0.2	0.2	0.7	0.2	0.4	0.2	1.6	0.2
STD ERR OF P	0.2	1.1	0.2	0.1	0.1	0.5	0.1	0.5	0.3	0.3	0.0	0.7	0.0	0.0	0.7	0.1	0.4	0.0	1.9	0.0
RESPONSE: 01* AGE: Ad	TEXT: All Acceptable Responses.																			
DELTA-P	27.1	1.3	-1.3	0.6	-0.4	10.0*	-9.3*	-25.5*	4.4*	-10.8*	-4.2	2.6	13.3*	-15.3*	2.8	1.3	3.9	-2.8	-3.5	6.5
STD ERR OF DP		2.4	1.8	2.0	1.9	1.1	1.1	1.3	0.5	1.8	2.5	1.5	2.1	2.5	4.7	1.4	3.9	3.7	3.7	3.9
P-VALUE	27.1	28.4	25.8	27.7	26.8	37.1	17.8	1.7	31.5	16.3	23.0	29.7	40.5	11.9	29.9	28.5	31.0	24.3	23.7	33.6
STD ERR OF P	1.2	2.8	2.0	2.4	2.0	1.8	1.3	0.9	1.2	2.0	2.6	2.1	2.3	2.3	5.0	1.7	4.1	3.7	4.0	4.2
RESPONSE: 39 AGE: Ad	TEXT: I Don't Know.																			
DELTA-P	12.7	1.0	-0.4	0.2	-0.7	-6.2*	5.8*	21.3*	-3.2*	7.8*	5.0*	-5.6*	-7.1*	14.7*	3.9	0.4	-2.2	-0.2	-1.3	-10.4*
STD ERR OF DP		2.2	1.4	1.7	1.5	0.8	0.8	3.9	0.6	2.1	2.3	1.1	1.2	4.1	3.5	1.3	2.8	3.2	2.2	1.2
STD ERR OF P	1.0	2.6	1.4	2.1	1.5	0.9	1.5	4.3	0.8	2.6	2.5	1.1	1.1	4.3	3.8	1.7	2.9	3.0	2.3	0.8

1375

1376

Report #: UP07

NAEP #: C30011-34

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		17	Adult
Package-Exercise:		08-20	06-04
National P-value:			
	UP07	13.97	34.59
Timing: (in seconds)			
UP07	Exercise total:	58	*

*Time not limited by paced tape.

EXERCISE: UP07

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	0.5	-0.5	2.4	-0.5	-1.2	-0.1	0.0	0.9	-0.7#	0.1	0.0	-0.2	-0.5	0.5	-0.5	-1.5	-1.6	1.0	8.4	-1.6
STD ERR OF DP		1.1	2.1	1.2	1.0	0.6	0.5	1.6	0.3	1.5	1.1	0.6	0.6	1.6	2.0	0.9	1.1	2.2	5.3	1.3
STD ERR OF P	0.8	1.0	2.7	1.4	0.9	1.0	1.0	1.6	0.8	1.7	1.4	1.2	0.9	1.5	2.1	0.8	0.9	2.3	6.0	1.1
AGE: Ad																				
DELTA-P	0.5	0.5	0.1	-0.3	-0.2	-0.4*	0.4*	-0.1	-0.0	-0.1	0.5	0.0	-0.4*	-0.5#	4.1*	-0.3	-0.3	0.2	-0.5#	-0.5#
STD ERR OF DP		0.6	0.3	0.2	0.2	0.2	0.2	0.4	0.1	0.2	0.8	0.2	0.2	0.2	1.9	0.2	0.3	0.8	0.2	0.2
STD ERR OF P	0.2	0.8	0.3	0.2	0.2	0.1	0.4	0.4	0.2	0.2	0.9	0.3	0.1	0.0	2.0	0.2	0.2	0.8	0.0	0.0
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	13.9	-3.1	-2.8	3.1	1.9	4.2#	-3.9#	-12.4#	2.5#	-7.7#	-6.4#	-1.6	5.7#	-8.5#	0.4	0.5	2.7	0.2	-5.8#	6.3*
STD ERR OF DP		2.1	1.5	2.0	1.8	1.0	0.9	1.2	0.3	1.9	1.8	1.1	0.9	1.8	4.7	1.5	2.8	3.3	2.2	2.6
P-VALUE	13.9	10.8	11.0	17.0	15.8	18.1	10.0	1.5	16.3	6.2	7.5	12.3	19.5	5.4	14.3	14.4	16.6	14.0	8.0	20.2
STD ERR OF P	1.1	2.4	1.4	2.5	2.0	1.7	1.1	0.6	1.2	1.7	1.9	1.6	1.6	1.6	5.1	1.9	3.1	3.3	2.1	2.6
AGE: Ad																				
DELTA-P	34.6	2.7	-0.9	0.0	-1.3	3.2#	-2.9#	-23.2#	3.3#	-8.3#	-6.4*	3.1*	11.2#	-12.4#	-1.8	1.9	4.9	-5.7	-5.2	8.2*
STD ERR OF DP		2.7	2.2	2.2	2.3	1.2	1.1	3.4	0.6	1.8	2.6	1.5	1.8	3.8	4.2	1.5	4.1	3.8	3.8	3.5
P-VALUE	34.6	37.3	33.7	34.6	33.3	37.7	31.6	11.4	37.8	26.3	28.2	37.7	45.8	22.2	32.8	36.5	39.4	28.9	29.4	42.8
STD ERR OF P	1.3	3.1	2.4	2.6	2.6	1.8	1.8	3.0	1.6	2.5	2.8	1.9	2.1	3.7	4.4	1.6	4.7	4.0	4.2	3.8
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	37.8	6.1*	2.0	-3.0	-3.9	-5.6#	5.1#	7.1	-1.7*	8.5*	2.5	3.8*	-6.4#	6.7	2.7	1.5	0.7	-6.2	-1.2	-6.7
STD ERR OF DP		2.5	2.3	2.1	2.3	1.3	1.2	3.8	0.8	4.2	3.6	1.7	1.3	4.1	5.0	2.0	3.3	5.0	4.0	4.3
STD ERR OF P	1.3	2.8	2.6	2.5	2.7	1.9	1.7	4.2	1.4	4.3	3.5	2.2	1.8	4.2	5.3	2.3	3.3	5.4	4.0	4.5
AGE: Ad																				
DELTA-P	26.1	3.2	-5.6#	-0.6	3.6	-6.8#	6.3#	27.7#	-4.2#	13.3#	5.0	-6.1#	-11.4#	19.8#	-2.6	-0.4	-1.0	-2.4	3.4	-11.3#
STD ERR OF DP		2.4	2.2	2.4	2.2	1.5	1.3	4.0	0.8	2.0	2.6	1.5	1.8	5.5	4.0	1.8	3.7	3.9	3.8	2.9
STD ERR OF P	1.4	2.6	2.5	3.0	2.5	1.8	2.1	4.5	1.3	2.7	3.1	1.9	1.7	5.8	4.2	2.3	4.1	4.1	3.8	3.0

Report #: UP08

NAEP #: C30012-38

Content Area: F. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		01-29	02-12
National P-value:			
	UP08	21.06	32.03
Timing: (in seconds)			
UP08	Exercise total:	66	*

*Time not limited by paced tape.

EXERCISE: UP08

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

	NATION	REGION SOUTH EAST	WEST	CENTRAL	NORTH EAST	SEX MALE	FEMALE	RACE BLACK	WHITE	PARENTAL EDUCATION NO HS	SOME HS	GRAD HS	POST HS	SIZE-AND-TYPE OF COMMUNITY LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17	TEXT: No Response.																			
DELTA-P	5.5	-1.6	0.3	-0.6	1.6	0.8	-0.8	4.8	-0.8	-0.1	-0.7	-0.5	-1.4*	3.9	-3.5#	-1.8*	-0.9	6.9*	1.6	-1.3
STD ERR OF DP		0.9	1.0	0.9	1.3	0.5	0.5	3.1	0.5	1.6	1.2	0.9	0.6	3.1	1.2	0.8	1.6	2.8	1.2	1.3
STD ERR OF P	0.6	0.9	1.2	0.9	1.7	0.7	0.9	3.5	0.6	1.6	1.1	0.9	0.6	3.5	1.1	0.6	1.6	3.1	1.3	1.4
AGE: Ad																				
DELTA-P	0.5	1.0	-0.4	-0.2	-0.3	0.1	-0.1	0.2	0.0	0.0	-0.3	0.3	-0.4	-0.5*	1.4	-0.3	-0.0	-0.5*	1.4	-0.5*
STD ERR OF DP		0.9	0.3	0.3	0.3	0.3	0.2	0.5	0.1	0.3	0.3	0.5	0.3	0.3	0.9	0.3	0.5	0.3	1.6	0.3
STD ERR OF P	0.2	1.1	0.2	0.3	0.2	0.5	0.2	0.5	0.3	0.3	0.3	0.7	0.1	0.0	1.0	0.2	0.5	0.0	1.9	0.0
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	21.1	-2.1	-0.0	0.6	1.1	2.6*	-2.5	-16.8#	3.1#	-11.0#	-11.2#	-4.3#	9.3#	-13.8#	-5.7*	4.7#	1.6	-6.4*	-4.4	4.9
STD ERR OF DP		2.2	2.8	2.0	2.3	1.3	1.3	2.2	0.4	2.4	2.4	1.5	1.2	2.4	2.6	1.4	2.7	2.9	2.5	3.3
P-VALUE	21.1	18.9	21.1	21.7	22.2	23.6	18.6	4.3	24.2	10.1	9.9	16.7	30.4	7.3	15.4	25.8	22.7	14.7	16.7	25.9
STD ERR OF P	1.4	2.2	3.5	2.1	2.7	2.0	1.7	1.8	1.5	2.1	2.1	1.7	2.0	2.3	2.3	2.2	2.3	2.8	2.5	3.5
AGE: Ad																				
DELTA-P	32.0	-3.1	0.4	1.2	0.9	11.0#	-10.2#	-25.3#	4.1#	-11.9#	-6.0*	4.1	14.2#	-16.6#	-2.4	0.4	1.3	0.9	-2.7	12.3#
STD ERR OF DP		2.9	2.5	2.6	1.8	1.2	1.3	2.8	0.7	2.4	2.7	2.1	2.2	3.9	4.5	1.6	4.2	4.7	3.9	3.0
P-VALUE	32.0	29.0	32.5	33.2	32.8	43.0	21.8	6.8	36.2	20.1	26.0	36.1	46.2	15.5	29.7	32.4	33.3	33.0	29.3	44.4
STD ERR OF P	1.4	3.3	2.9	3.3	1.5	2.0	1.7	2.8	1.6	2.5	2.7	2.8	2.5	3.8	4.8	2.1	4.6	4.9	4.0	3.3
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	18.4	-0.6	3.2	-1.0	-1.7	-2.0	2.0	-0.6	-0.2	3.3	1.9	1.0	-1.6	3.7	1.1	-2.5	3.2	-1.5	3.7	-1.0
STD ERR OF DP		2.6	2.0	1.8	1.9	1.1	1.1	2.0	0.4	2.7	2.3	1.4	1.1	2.8	3.1	1.4	2.8	2.0	3.1	2.5
STD ERR OF P	1.2	3.0	2.4	1.8	2.2	1.8	1.5	2.2	1.3	3.0	2.4	1.6	1.8	2.9	3.2	2.0	2.9	1.9	3.4	2.6
AGE: Ad																				
DELTA-P	20.3	1.4	0.3	1.2	-3.0	-8.5#	7.9#	13.8#	-2.7#	3.6	5.8#	-2.4	-7.8#	7.9*	1.5	-1.7	6.0	5.9	-2.9	-7.7#
STD ERR OF DP		1.8	1.9	2.1	1.5	1.0	0.9	4.3	0.7	2.0	2.3	1.5	1.7	3.9	3.6	1.3	4.4	5.8	2.5	2.4
STD ERR OF P	1.1	2.0	2.0	2.7	1.5	1.2	1.6	4.7	1.1	2.2	2.7	2.0	1.7	4.2	3.8	1.6	4.5	6.1	2.6	2.5

Report #: UP09

NAEP #: C50002-234

Content Area: P. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		13	17	Adult
Age:				
Package-Exercise:		07-03	07-29	07-08
National P-value:				
	UP09	7.60	36.06	66.09
Timing: (in seconds)				
UP09	Exercise total:	42	41	*

*Time not limited by paced tape.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: UP09

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.8	-0.5	-0.1	-1.0	1.6	0.0	0.0	4.6#	-1.2#	-1.3	1.6	0.1	-0.9*	7.4#	-3.1#	-1.9#	0.3	3.3	0.2	-0.8
STD ERR OF DP		0.8	0.8	0.7	1.0	0.4	0.4	1.5	0.3	1.1	1.8	0.5	0.4	2.8	0.7	0.6	0.9	1.9	1.1	1.3
STD ERR OF P	0.5	0.8	1.0	0.8	1.2	0.7	0.6	1.7	0.4	1.1	1.8	0.6	0.6	3.0	0.5	0.5	1.0	2.0	1.2	1.4
AGE: 17																				
DELTA-P	3.5	-0.6	-1.3	0.0	1.6	-0.3	0.3	3.9#	-0.8#	-0.7	-0.8	-0.1	[illegible]	3.1	-0.8	-0.2	-0.5	4.3	-0.7	-3.0#
STD ERR OF DP		0.7	0.7	0.8	1.0	0.5	0.5	1.2	0.3	1.2	1.0	0.6	[illegible]	2.4	1.5	0.6	1.0	2.8	1.3	0.7
STD ERR OF P	0.5	0.7	0.7	1.0	1.3	0.6	0.8	1.4	0.5	1.3	0.9	0.7	[illegible]	2.5	1.6	0.6	1.1	3.0	1.4	0.6
AGE: Ad																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	-0.0	0.0	0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0
STD ERR OF DP		0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STD ERR OF P	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	7.6	-2.6	-2.2	4.4#	-0.3	0.1	-0.1	-4.7#	1.2#	-2.3	-5.2#	-0.6	3.3#	-4.0#	1.3	-2.6#	-1.1	1.8	3.0	4.5*
STD ERR OF DP		1.3	1.1	1.4	1.3	0.8	0.7	1.1	0.3	2.2	1.3	0.9	0.8	1.4	2.2	0.9	1.3	3.5	1.8	2.1
P-VALUE	7.6	5.1	5.4	12.0	7.3	7.7	7.5	2.9	8.8	5.3	2.4	7.0	10.9	3.6	8.9	5.0	6.5	9.4	10.6	12.1
STD ERR OF P	0.8	1.4	1.1	1.7	1.5	1.0	1.2	0.9	0.9	2.3	1.1	1.2	1.3	1.2	2.5	1.0	1.4	3.8	1.9	2.3
AGE: 17																				
DELTA-P	36.1	-2.0	-7.4#	1.0	7.5#	1.8	-1.5	-21.1#	3.9#	-9.6#	-8.5#	1.5	4.6#	-16.5#	-7.6*	6.5#	-4.9	-6.1	3.2	8.4#
STD ERR OF DP		3.2	2.3	2.5	2.4	1.2	1.1	2.1	0.6	3.5	2.4	1.8	1.5	2.8	3.6	1.9	3.2	4.2	4.0	3.1
P-VALUE	36.1	34.1	28.7	37.1	43.5	37.8	34.5	15.0	39.9	26.4	27.5	37.6	40.6	19.6	28.5	42.6	31.1	30.0	39.2	44.4
STD ERR OF P	1.6	3.6	2.5	2.9	2.9	1.9	2.0	2.2	1.6	3.5	2.9	2.5	2.3	2.4	4.0	2.4	3.8	4.2	4.3	3.3
AGE: Ad																				
DELTA-P	66.1	-3.7	1.7	1.1	0.0	1.5	-1.4	-38.0#	5.9#	-11.2#	-1.4	3.0	11.3#	-22.0#	-3.1	2.0	0.2	-3.0	-3.1	15.0#
STD ERR OF DP		3.0	2.4	2.7	2.4	1.3	1.2	4.1	0.7	2.2	2.9	1.8	2.1	4.8	2.4	2.2	5.0	5.1	3.3	3.3
P-VALUE	66.1	62.4	67.8	67.2	66.1	67.6	64.7	28.1	72.0	54.9	64.7	69.1	77.4	44.1	63.0	68.1	66.3	63.1	63.0	81.1
STD ERR OF P	1.5	3.4	2.7	3.3	2.7	2.0	2.0	4.1	1.5	2.8	3.3	2.2	2.5	4.9	2.2	2.9	4.9	5.4	3.5	3.6
RESPONSE: 39 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	27.7	-0.1	1.6	-2.0	0.7	-1.2	1.2	-6.2*	0.6	-5.4	7.9#	0.6	-0.7	-3.7	-2.9	0.6	1.9	-5.8	-0.3	6.3
STD ERR OF DP		1.9	2.4	2.2	2.5	1.0	1.0	2.7	0.6	3.0	3.1	1.4	1.3	2.8	3.1	2.3	2.8	3.4	3.5	4.2
STD ERR OF P	1.3	1.8	2.7	2.6	3.1	1.6	1.7	2.9	1.5	3.0	3.3	1.6	2.1	3.1	3.2	2.6	2.8	3.6	4.0	4.7
AGE: 17																				
DELTA-P	11.4	1.3	1.6	-1.6	-0.9	-0.1	0.1	5.8#	-0.9*	-2.8*	4.4	0.5	-1.2	7.6*	-0.9	-1.3	1.5	-1.7	1.2	-3.5
STD ERR OF DP		1.2	1.2	1.2	1.4	0.8	0.7	2.3	0.4	1.4	2.5	1.0	0.8	3.3	1.2	0.9	1.7	2.7	2.7	2.3
STD ERR OF P	0.8	1.2	1.3	1.5	1.8	1.1	1.0	2.5	0.8	1.1	2.6	1.3	1.1	3.4	1.1	1.0	1.8	2.8	3.0	2.3
AGE: Ad																				
DELTA-P	4.8	2.8	-1.5	-1.6	1.1	-2.0#	1.9#	12.0#	-1.9#	4.9#	-0.9	-1.4	-3.9#	5.8*	0.4	0.5	-0.8	1.4	-2.0	-4.0#
STD ERR OF DP		1.5	0.8	0.9	0.9	0.6	0.6	2.7	0.4	1.1	1.3	0.9	0.6	2.9	1.5	0.7	1.3	2.3	1.0	0.7
STD ERR OF P	0.6	1.7	0.9	1.0	1.0	0.7	0.9	3.0	0.5	1.5	1.3	1.0	0.4	3.0	1.6	1.0	1.3	2.3	0.9	0.6

Report #: UP10

NAEP #: C50035-34

Content Area: F. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer
Scoring Type: Semi-professional
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		10-10	01-22
National P-value:			
	UP10	5.96	20.76
Timing: (in seconds)			
UP10	Exercise total:	60	*

*Time not limited by paced tape.

EXERCISE: UP10

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: NG AGE: 17	TEXT: No Response.																			
DELTA-P	2.4	1.3	-0.5	-1.1	0.6	0.3	-0.3	1.2	-0.3	1.2	-0.4	-1.2#	-0.0	1.8	1.5	-0.5	-0.2	2.0	-0.8	-0.8
STD ERR OF DP		0.8	0.6	0.6	0.7	0.3	0.3	1.3	0.3	0.9	0.7	0.4	0.5	1.3	1.7	0.4	1.1	2.2	0.8	0.9
STD ERR OF P	0.4	0.9	0.7	0.6	0.8	0.5	0.5	1.4	0.4	0.9	0.8	0.4	0.7	1.5	1.8	0.4	1.2	2.2	0.8	0.9
AGE: Ad																				
DELTA-P	0.9	-0.2	0.3	0.2	-0.4	0.2	-0.2	0.0	0.1	0.2	0.9	-0.8#	0.2	-0.0	0.5	-0.4	0.4	-0.2	-0.1	0.8
STD ERR OF DP		0.5	0.6	0.5	0.4	0.2	0.2	0.7	0.1	0.5	0.8	0.3	0.5	0.6	0.9	0.3	1.1	0.7	0.7	1.0
STD ERR OF P	0.3	0.5	0.7	0.7	0.3	0.4	0.3	0.7	0.3	0.6	0.9	0.1	0.6	0.6	0.9	0.3	1.2	0.7	0.7	1.1
RESPONSE: 01* AGE: 17	TEXT: All Acceptable Responses.																			
DELTA-P	5.9	-1.7	-0.5	0.7	1.1	2.6#	-2.4#	-4.0#	0.7#	-2.6	-3.6#	-1.7*	3.0#	-2.7	0.4	-0.4	-0.3	-0.2	-2.4*	7.8#
STD ERR OF DP		1.4	1.0	1.0	1.4	0.6	0.6	1.1	0.3	1.7	1.0	0.8	0.6	1.4	2.1	1.0	1.2	2.4	1.0	2.6
P-VALUE	5.9	4.1	5.4	6.6	7.0	8.4	3.5	1.9	6.6	3.3	2.3	4.2	8.8	3.2	6.3	5.5	5.6	5.7	3.4	13.6
STD ERR OF P	0.7	1.6	1.0	1.2	1.7	1.2	0.5	1.1	0.8	1.6	1.0	1.0	1.1	1.5	1.9	1.3	1.3	2.5	1.0	2.9
AGE: Ad																				
DELTA-P	20.8	-5.4#	2.3	-0.2	2.6	9.5#	-8.8#	-17.6#	2.7#	-8.4#	-7.6#	1.0	15.2#	-12.2#	-3.0	1.1	1.5	-0.6	-2.3	8.9#
STD ERR OF DP		1.7	2.2	1.6	2.0	1.0	1.0	1.5	0.5	1.7	2.2	1.6	2.2	3.2	2.8	1.8	3.4	4.7	3.2	2.4
P-VALUE	20.8	15.4	23.1	20.5	23.3	30.2	12.0	3.2	23.4	12.4	13.2	21.7	36.0	8.6	17.7	21.8	22.3	20.2	18.5	29.6
STD ERR OF P	1.1	1.7	2.7	1.8	2.3	1.6	1.3	1.3	1.3	1.9	2.3	1.8	2.5	3.1	2.8	2.3	3.3	4.9	3.4	2.5
RESPONSE: 39 AGE: 17	TEXT: I Don't Know.																			
DELTA-P	20.9	-0.4	4.0	-1.0	-2.5	-2.8#	2.6#	0.2	0.4	-0.5	-1.7	1.4	-1.0	-2.0	-2.0	-0.0	-2.5	0.8	5.8*	-3.6
STD ERR OF DP		2.0	2.1	1.7	2.3	1.0	0.9	2.9	0.5	2.3	2.0	1.5	1.1	3.7	2.5	1.1	2.0	4.4	2.7	2.5
STD ERR OF P	1.2	2.1	2.4	1.8	2.8	1.4	1.5	3.2	1.3	2.6	2.2	1.9	1.6	3.8	2.6	1.5	2.3	4.7	3.2	2.6
AGE: Ad																				
DELTA-P	18.2	1.7	1.1	-0.3	-2.4	-6.1#	5.7#	5.5	-0.9	3.5*	4.5	-3.9#	-4.1#	3.5	-0.6	-1.0	0.9	3.1	1.2	-3.0
STD ERR OF DP		2.0	1.7	1.4	1.6	1.1	1.0	2.9	0.5	1.7	2.7	1.6	1.4	3.1	2.6	1.3	2.5	3.7	2.6	2.0
STD ERR OF P	0.9	2.3	2.0	1.6	1.7	1.2	1.5	3.0	1.0	2.0	2.9	1.8	1.6	3.2	2.7	1.6	2.7	3.9	2.7	2.2

Report #: UP11

NAEP #: E17001-12

Content Area: F. BUSINESS AND CONSUMER MATHEMATICS

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Apparatus needed
Scoring Type: Professional
Administration Mode: Individual

Age:		9	13
Package-Exercise:		08-11	11-08
National P-value:			
	UP11	13.04	52.14

Timing: No paced tape was used in this individually administered exercise.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO

EXERCISE: UP11

This unreleased exercise dealt with BUSINESS AND CONSUMER MATHEMATICS at the level of Objective IV.

RESPONSE: C1* AGE: 9 TEXT: All Acceptable Responses.

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	13.0	-4.0#	1.0	-0.3	3.1*	1.9*	-2.0*	-7.3#	1.4#	-11.3#	-7.9#	-2.7*	4.1#	-7.0#	-4.2*	-1.0	-0.1	-1.6	3.0	7.8#
STD ERR OF DP		1.3	2.0	1.5	1.3	0.9	0.9	1.5	0.5	1.6	2.2	1.2	1.3	1.4	2.0	1.5	2.3	2.3	2.5	2.8
P-VALUE	13.0	9.1	14.0	12.7	16.2	14.9	11.1	5.7	14.4	1.8	5.2	10.4	17.1	6.1	8.9	12.0	12.9	11.5	16.1	20.9
STD ERR OF P	0.9	1.3	2.5	1.8	1.4	1.4	1.2	1.7	1.0	1.4	2.0	1.3	1.9	1.6	2.0	1.7	2.4	2.5	2.9	3.1

AGE: 13

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	52.1	-7.3#	-1.2	3.0	4.2	2.5	-2.5	-15.6#	3.6#	-11.0*	-11.4#	1.2	6.7#	-6.6	-3.5	-2.5	0.4	-0.9	5.6	7.2*
STD ERR OF DP		2.3	2.9	2.3	2.1	1.3	1.3	2.9	0.8	4.7	3.7	2.3	2.1	4.4	3.2	2.1	2.6	3.5	3.6	3.4
P-VALUE	52.1	44.9	51.0	55.2	56.3	54.6	49.7	36.5	55.8	41.2	40.8	53.4	58.8	45.5	48.6	49.7	52.5	51.3	57.7	59.3
STD ERR OF P	1.4	2.5	3.5	2.8	2.2	1.8	2.0	3.1	1.5	5.0	4.1	2.5	2.5	4.5	3.4	2.7	2.7	3.6	3.9	3.6

1390

1391

Report #: MQ01

NAEP #: J13001-38

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		02-26	06-14
National P-value:			
	MQ01	10.36	15.70
Timing: (in seconds)			
MQ01	Exercise total:	104	*

*Time not limited by paced tape.

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                         NATION |             REGION              |      SEX       |      RACE      |     PARENTAL EDUCATION      |          SIZE-AND-TYPE OF COMMUNITY
                                | SOUTH                     NORTH |                |                |         SOME   GRAD   POST  |  LOW  EXTREME SMALL MEDIUM  MAIN  URBAN  HIGH
                         -------|  EAST   WEST CENTRAL       EAST |  MALE   FEMALE | BLACK   WHITE  | NO HS    HS     HS     HS   | METRO  RURAL PLACES  CITY BIG CTY FRINGE METRO

EXERCISE: 0Q01

This unreleased exercise dealt with METHODS OF REPRESENTING DATA at the level of Objective IV.


RESPONSE:  00    AGE: 17      TEXT:  No Response.

    DELTA-P                 2.1      2.1   -1.4   -1.2    0.8     0.2   -0.2     4.9*  -0.7     -0.7    1.6   -0.5  -1.1#     1.5  -2.1#  -1.1   -1.5  18.1*  -2.1#  -2.1#
    STD ERR OF DP                    2.4    0.8    0.9    0.9     0.5    0.8     2.3    0.4      0.9    2.1    0.5   0.4      1.9   0.7    0.8    0.9   7.5    0.7    0.7
    STD ERR OF P            0.7      3.1    0.4    0.7    0.7     1.1    0.4     2.9    0.7      1.0    2.7    0.6   0.5      1.9   0.0    0.4    0.6   8.1    0.0    0.0

               AGE: Ad

    DELTA-P                 0.0     -0.0    0.1   -0.0   -0.0     0.1   -0.0     0.4   -0.0     -0.0   -0.0    0.1  -0.0     -0.0  -0.0   -0.0   -0.0  -0.0    0.4   -0.0
    STD ERR OF DP                    0.1    0.1    0.1    0.1     0.1    0.1     0.4    0.1      0.1    0.1    0.1   0.1      0.1   0.1    0.1    0.1   0.1    0.3    0.1
    STD ERR OF P            0.0      0.0    0.2    0.0    0.0     0.1    0.0     0.4    0.0      0.0    0.0    0.2   0.0      0.0   0.0    0.0    0.0   0.0    0.4    0.0

RESPONSE:  02*   AGE: 17      TEXT:  All Acceptable Responses.

    DELTA-P                10.4     -2.7    0.8    1.8   -0.5     1.6*  -1.4*   -8.0#   1.6#    -3.6   -4.3#  -1.9   4.1#    -5.9#   0.2    1.0    0.9  -4.9*  -0.8    5.9#
    STD ERR OF DP                    1.5    1.5    1.1    1.0     0.7    0.6     0.8    0.4      2.1    1.4    1.0   0.9      1.2   1.7    0.9    2.2   2.2    1.4    2.1
    P-VALUE                10.4      7.7   11.2   12.1    9.9    11.9    9.0     2.4   12.0      6.7    6.0    9.4  14.5      4.4  10.6   11.4   11.3   5.5    9.5   16.3
    STD ERR OF P            0.7      1.7    1.8    1.3    1.1     1.2    0.8     0.7    0.8      2.2    1.3    1.3   1.3      1.3   1.7    1.2    2.3   2.2    1.3    2.4

               AGE: Ad

    DELTA-P                15.7     -1.0   -2.0   -1.2    4.0*    4.3#  -4.0#   -4.3*   0.7*    -5.1#  -3.2    3.2   2.2     -2.8  -5.8#  -0.1    4.7  -0.8   -3.7    5.2
    STD ERR OF DP                    1.9    1.6    1.3    1.8     1.0    1.0     2.0    0.3      1.2    1.9    1.9   1.6      2.2   2.1    1.3    3.5   5.7    2.6    3.5
    P-VALUE                15.7     14.7   13.8   14.5   19.7    20.0   11.8    11.4   16.4     10.6   12.5   18.9  17.9     12.9   9.9   15.6   20.4  14.9   12.0   20.9
    STD ERR OF P            0.9      2.0    1.9    1.4    2.3     1.6    1.1     2.2    1.0      1.5    1.9    2.0   1.9      2.3   2.0    1.4    3.9   6.1    2.5    3.8

RESPONSE:  09    AGE: 17      TEXT:  I Don't Know.

    DELTA-P                 1.8     -0.3    1.0*  -0.7    0.0    -0.3    0.2     0.0   -0.1     -1.2#   0.4   -0.3   0.1     -0.7  -0.5   -0.1   -0.5   2.1    0.5   -0.0
    STD ERR OF DP                    0.5    0.5    0.4    0.5     0.3    0.2     0.7    0.2      0.4    0.3    0.3   0.3      0.6   0.7    0.4    0.6   1.2    0.8    0.9
    STD ERR OF P            0.3      0.5    0.6    0.4    0.6     0.4    0.4     0.7    0.3      0.4    0.8    0.4   0.4      0.6   0.7    0.5    0.6   1.3    0.9    1.0

               AGE: Ad

    DELTA-P                 4.9      0.4   -1.2   -0.4    1.3    -0.5    0.4     4.7*  -0.7*     1.9    1.5   -1.6* -1.3      3.4   0.3   -0.4   -2.7* -2.0    2.9    0.7
    STD ERR OF DP                    1.5    1.0    1.0    1.5     0.6    0.6     2.0    0.3      1.2    2.3    0.9   1.0      2.0   2.4    0.7    1.1   1.5    2.8    1.4
    STD ERR OF P            0.7      1.8    0.9    1.1    1.9     1.1    0.8     2.3    0.7      1.5    2.6    0.8   1.0      2.2   2.6    0.8    0.9   1.6    3.2    1.5
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Report #: UQ02

NAEP #: J30025-34

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Multiple part multiple choice using graph
Scoring Type: Machine
Administration Mode: Group

		17	Adult
Age:		17	Adult
Package-Exercise:		03-25	03-20
National P-value:			
	UQ02A	78.83	76.14
	UQ02B	69.79	67.48
Timing: (in seconds)			
UQ02A	Part total:	37	*
UQ02B	Part total:	32	*
UQ02	Exercise total:	69	*

*Time not limited by paced tape.

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                                NATION |          REGION             |      SEX       |     RACE       |   PARENTAL EDUCATION           |          SIZE-AND-TYPE OF COMMUNITY
                                       | SOUTH                NORTH  |                |                |         SOME    GRAD    POST   |  LOW  EXTREME SMALL  MEDIUM  MAIN  URBAN   HIGH
                                -------|  EAST   WEST CENTRAL  EAST  |  MALE  FEMALE  | BLACK   WHITE  | NO HS    HS      HS      HS    | METRO  RURAL PLACES  CITY BIG CITY FRINGE METRO

EXERCISE: UQ02

This unreleased exercise dealt with METHODS OF REPRESENTING DATA at the level of Objective III.

Part A.

RESPONSE:  00    AGE: 17        TEXT:  No Response.

    DELTA-P                      0.2    -0.2   -0.1   -0.0    0.3     0.0   -0.0    -0.2   -0.1    -0.2   -0.2   -0.2   -0.2     1.4   -0.2   -0.1   -0.2   -0.2    0.1   -0.2
    STD ERR OF DP                        0.1    0.1    0.2    0.3     0.0    0.0     0.1    0.1     0.1    0.1    0.1    0.1     1.5    0.1    0.1    0.1    0.1    0.2    0.1
    STD ERR OF P                 0.1     0.0    0.0    0.1    0.5     0.2    0.1     0.0    0.1     0.0    0.0    0.0    0.0     1.6    0.0    0.0    0.0    0.0    0.2    0.0

                 AGE: Ad

    DELTA-P                      0.3    -0.3   -0.3   -0.3    1.1     0.4   -0.3     2.8   -0.3    -0.3   -0.3    0.6   -0.1     2.7   -0.3   -0.2   -0.3   -0.3   -0.3   -0.3
    STD ERR OF DP                        0.3    0.3    0.3    0.9     0.3    0.3     2.4    0.3     0.3    0.3    0.6    0.3     2.6    0.3    0.3    0.3    0.3    0.3    0.3
    STD ERR OF P                 0.3     0.0    0.0    0.0    1.2     0.6    0.0     2.7    0.1     0.0    0.0    0.9    0.2     2.9    0.0    0.1    0.0    0.0    0.0    0.0

RESPONSE:  01*   AGE: 17        TEXT:  All Acceptable Responses.

    DELTA-P                     78.8    -7.5*   1.8    2.1    2.5     2.8*  -2.7*  -23.3*   4.3*  -15.6*  -7.0*  -0.7    7.7*  -11.3*  -7.0*   0.5    1.2   -8.8    6.6*   9.3*
    STD ERR OF DP                        1.9    1.6    1.8    1.7     1.0    1.0     3.7    0.6     3.9    2.6    1.3    1.2     3.3    3.2    1.7    2.3    4.8    3.0    2.4
    P-VALUE                     78.8    71.3   80.7   80.9   81.3    81.6   76.1    55.5   83.1    63.2   71.9   78.1   86.6    67.5   71.8   79.4   80.0   70.0   85.4   88.1
    STD ERR OF P                 1.0     2.2    1.6    2.3    1.9     1.4    1.5     3.8    1.1     4.1    2.7    1.8    1.2     3.4    3.4    1.8    2.9    5.0    3.3    2.5

                 AGE: Ad

    DELTA-P                     76.1    -1.6    2.3   -1.7    0.7     7.3*  -6.8*  -21.7*   3.7*  -12.1*  -5.2    3.9*  11.6*  -22.7*   5.6    1.4   -3.7    1.3    2.3    8.8*
    STD ERR OF DP                        2.6    2.1    2.0    2.7     1.2    1.1     4.4    0.7     2.0    2.7    1.6    1.9     5.3    3.8    1.6    5.0    3.1    3.5    2.8
    P-VALUE                     76.1    74.6   78.5   74.4   76.9    83.5   69.4    54.5   79.8    64.1   71.0   80.0   87.7    53.5   81.9   77.5   72.5   77.4   78.5   85.0
    STD ERR OF P                 1.3     2.8    2.4    2.3    3.2     1.7    1.7     4.6    1.3     2.4    3.0    1.9    2.1     5.6    3.9    1.9    5.2    3.2    3.5    3.1

RESPONSE:  DK    AGE: 17        TEXT:  I Don't Know.

    DELTA-P                      1.1     1.8*  -0.2   -0.9*  -0.3     0.2   -0.2     3.5*  -0.5*    2.6    0.6    0.2   -0.7*    1.3    0.9   -0.2    0.3    1.1   -0.9*  -1.0*
    STD ERR OF DP                        0.7    0.3    0.3    0.4     0.3    0.2     1.4    0.2     1.6    0.8    0.4    0.3     0.9    1.0    0.3    0.6    1.5    0.3    0.3
    STD ERR OF P                 0.2     0.9    0.3    0.1    0.5     0.4    0.3     1.6    0.2     1.8    0.8    0.4    0.2     1.0    1.1    0.3    0.7    1.6    0.1    0.1

                 AGE: Ad

    DELTA-P                      2.7     1.0   -1.1    0.4   -0.1    -1.4*   1.3*    6.2*  -1.0*    3.4*  -0.9   -1.7*  -1.8*    2.3   -0.3    0.3    0.1    1.6   -1.1   -2.5*
    STD ERR OF DP                        0.9    0.6    0.7    0.7     0.4    0.4     2.2    0.3     0.9    0.8    0.5    0.6     1.6    1.3    0.5    1.5    1.9    1.2    0.5
    STD ERR OF P                 0.4     1.1    0.6    0.8    0.8     0.4    0.7     2.4    0.4     1.1    0.9    0.4    0.5     1.6    1.5    0.6    1.6    2.1    1.2    0.2

EXERCISE: UQ02

Part B.

RESPONSE:  00    AGE: 17        TEXT:  No Response.

    DELTA-P                      0.3    -0.3    0.0    0.0    0.2     0.1   -0.1     0.0   -0.1    -0.3   -0.2   -0.1   -0.2     1.3    0.0   -0.1   -0.3   -0.3    0.2   -0.3
    STD ERR OF DP                        0.2    0.2    0.3    0.4     0.1    0.1     0.3    0.1     0.2    0.2    0.2    0.2     1.5    0.3    0.2    0.2    0.2    0.5    0.2
    STD ERR OF P                 0.2     0.0    0.2    0.3    0.5     0.2    0.2     0.3    0.1     0.0    0.1    0.2    0.1     1.6    0.3    0.1    0.0    0.0    0.5    0.0

                 AGE: Ad

    DELTA-P                      0.4    -0.4   -0.2   -0.4    1.0     0.3   -0.3     3.0   -0.3    -0.4    0.0    0.5   -0.2     2.6    0.4   -0.3   -0.4   -0.4   -0.4   -0.4
    STD ERR OF DP                        0.3    0.3    0.3    0.9     0.3    0.3     2.4    0.3     0.3    0.5    0.6    0.3     2.6    0.8    0.3    0.3    0.3    0.3    0.3
    STD ERR OF P                 0.3     0.0    0.2    0.0    1.2     0.6    0.1     2.7    0.1     0.0    0.4    0.9    0.2     2.9    0.8    0.1    0.0    0.0    0.0    0.0

RESPONSE:  03*   AGE: 17        TEXT:  All Acceptable Responses.

    DELTA-P                     69.8    -5.5*   2.3   -1.1    4.0*    1.6   -1.5   -14.7*   3.5*   -9.5*  -5.0   -1.3    5.3*  -12.6*  -7.0*   1.6    1.4   -0.5    2.6    5.7
    STD ERR OF DP                        2.2    2.1    2.2    2.0     1.3    1.2     3.2    0.6     3.9    3.3    1.6    1.2     4.9    3.4    2.0    2.9    2.4    3.1    3.2
    P-VALUE                     69.8    64.3   72.1   68.7   73.8    71.4   68.3    55.1   73.3    60.3   64.8   68.5   75.1    57.2   62.8   71.4   71.2   69.3   72.4   75.5
    STD ERR OF P                 1.3     2.4    2.2    2.9    2.1     1.6    1.9     3.2    1.4     4.1    3.4    1.9    1.7     5.0    3.6    2.5    2.9    2.4    3.5    3.5

                 AGE: Ad

    DELTA-P                     67.5    -9.0* [illegible] 1.9  0.6     8.6*  -8.0*  -17.3*   3.8*  -11.8*  -5.4    3.2   13.2*  -16.5*  -4.2    0.1   -3.3    5.9    3.2   10.3*
    STD ERR OF DP                        3.0 [illegible] 2.3   3.0     1.3    1.3     4.3    0.8     2.5    2.9    1.9    1.9     4.7    3.9    1.7    4.2    3.9    3.4    3.0
    P-VALUE                     67.5    58.5   71.6   69.4   68.1    76.1   59.5    50.3   71.3    55.7   62.1   70.7   80.7    51.0   63.3   67.6   63.7   73.4   70.6   77.8
    STD ERR OF P                 1.5     3.4    2.7    2.6    3.6     2.1    1.9     4.8    1.5     2.9    3.0    2.7    2.2     5.1    4.0    2.2    4.5    4.0    3.6    3.3
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EXERCISE: UQ02

This unreleased exercise dealt with METHODS OF REPRESENTING DATA at the level of Objective III.

Part B.

RESPONSE: 09 AGE: 17 TEXT: I Don't Know.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	1.6	0.8	-0.6	0.3	-0.5	0.5	-0.5	2.3	-0.3	3.7	2.0	-0.5	-0.9*	0.5	2.3	-0.3	0.2	1.4	-1.2#	-1.4#
STD ERR OF DP		0.6	0.4	0.7	0.5	0.4	0.4	1.3	0.2	2.9	1.0	0.5	0.4	0.9	2.3	0.4	0.8	1.5	0.4	0.4
STD ERR OF P	0.4	0.7	0.3	1.0	0.5	0.7	0.3	1.4	0.4	3.2	1.1	0.4	0.2	0.9	2.6	0.3	0.8	1.7	0.3	0.2

AGE: Ad

	NATION	SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
DELTA-P	3.1	1.3	-1.3*	0.8	-0.7	-2.3#	2.1#	6.6#	-1.0#	2.1*	1.3	-1.2	-2.8#	1.5	1.3	-0.0	-1.0	2.6	-0.7	-1.9*
STD ERR OF DP		1.0	0.6	0.8	0.7	0.4	0.4	2.3	0.3	1.0	1.3	0.6	0.5	1.4	1.7	0.6	1.4	2.5	1.3	0.9
STD ERR OF P	0.5	1.1	0.6	1.1	0.7	0.4	0.8	2.5	0.4	1.3	1.4	0.7	0.2	1.5	1.8	0.7	1.4	2.6	1.4	0.8

Report #: 9Q03

NAEP #: J30029-34

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Multiple choice using graph, table, or drawing
Scoring Type: Machine
Administration Mode: Group

		17	Adult
Age:			
Package-Exercise:		06-14	02-09
National P-value:			
	9Q03	49.85	58.25
Timing: (in seconds)			
9Q03	Exercise total:	47	*

*Time not limited by paced tape.

EXERCISE: 0Q03

This unreleased exercise dealt with METHODS OF REPRESENTING DATA at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 17 TEXT: No Response.																				
DELTA-P	0.2	0.2	-0.2	0.0	-0.0	0.2	-0.2	-0.1	0.0	-0.2	0.4	-0.2	0.1	-0.0	-0.2	0.2	-0.2	-0.2	-0.2	0.1
STD ERR OF DP		0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.4	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.3
STD ERR OF P	0.1	0.4	0.0	0.2	0.1	0.2	0.0	0.1	0.1	0.0	0.5	0.0	0.2	0.2	0.0	0.3	0.0	0.0	0.0	0.3
AGE: Ad																				
DELTA-P	0.2	0.8	-0.1	-0.3	-0.3	0.3	-0.3	-0.3	0.1	-0.1	-0.3	0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	1.9	-0.3
STD ERR OF DP		0.8	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.2	1.7	0.2
STD ERR OF P	0.2	1.0	0.1	0.0	0.0	0.5	0.0	0.0	0.3	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
RESPONSE: 05* AGE: 17 TEXT: All Acceptable Responses.																				
DELTA-P	49.9	-7.0*	0.1	3.4	1.8	4.9*	-4.5*	-21.3*	3.9*	-14.4*	-12.6*	-0.5	9.1*	-10.7*	-1.0	-3.3	0.8	-1.9	5.4	9.4*
STD ERR OF DP		3.1	1.9	2.7	1.9	1.5	1.5	3.8	0.7	3.4	3.5	1.8	1.5	2.9	7.9	1.7	3.0	4.2	3.7	3.0
P-VALUE	49.9	42.9	49.9	53.3	51.6	54.8	45.3	28.5	53.7	35.4	37.2	49.4	58.9	39.1	48.8	46.6	50.6	48.0	55.2	59.3
STD ERR OF P	1.4	3.6	1.7	3.5	1.8	1.9	2.2	3.7	1.6	3.5	3.7	2.5	1.9	2.7	8.7	2.1	3.1	4.2	3.9	2.8
AGE: Ad																				
DELTA-P	58.3	-3.1	2.6	-0.6	0.6	7.5*	-6.9*	-24.1*	3.6*	-10.0*	-4.6	3.5	12.2*	-11.9*	4.5	0.7	-3.8	-2.2	-2.9	10.8*
STD ERR OF DP		2.6	2.6	2.4	2.8	1.5	1.4	3.7	0.6	2.5	2.8	2.2	2.1	4.2	3.6	1.3	4.8	5.8	4.5	3.7
P-VALUE	58.3	55.1	60.9	57.7	58.9	65.7	51.3	34.1	61.9	48.3	53.7	61.8	70.5	46.3	62.8	59.0	54.4	56.0	55.3	69.1
STD ERR OF P	1.5	2.8	3.1	2.8	3.3	2.1	2.0	3.8	1.5	2.9	2.9	2.6	2.6	4.3	3.5	2.0	5.6	6.1	4.5	3.5
RESPONSE: 09 AGE: 17 TEXT: I Don't Know.																				
DELTA-P	1.4	1.8	-0.2	-0.6	-0.6	-0.4	0.4	4.8*	-0.9*	2.8*	3.3	-1.2*	-1.1*	1.6	-0.4	-0.2	0.2	0.2	-0.1	-0.3
STD ERR OF DP		0.9	0.4	0.4	0.5	0.3	0.3	2.0	0.3	0.9	1.7	0.3	0.3	0.8	0.5	0.4	1.1	1.0	0.9	1.0
STD ERR OF P	0.3	1.2	0.3	0.4	0.5	0.2	0.5	2.2	0.1	1.0	1.9	0.1	0.1	0.8	0.5	0.4	1.2	1.1	1.0	1.0
AGE: Ad																				
DELTA-P	3.3	0.8	-0.3	0.4	-0.9	-1.3*	1.2*	10.9*	-1.5*	3.0*	-0.7	-1.7*	-2.0*	3.2	0.3	-0.8	2.6	2.4	-0.7	-3.3*
STD ERR OF DP		1.1	0.8	0.8	0.7	0.5	0.5	2.2	0.4	1.0	0.9	0.5	0.7	1.7	1.6	0.6	1.7	2.4	1.4	0.5
STD ERR OF P	0.5	1.3	1.0	1.0	0.7	0.5	0.8	2.4	0.4	1.2	1.0	0.5	0.7	1.8	1.7	0.7	1.8	2.5	1.5	0.0

1

Report #: UQ04

NAEP #: J10030-234

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: III. Understand Mathematical Concepts and Processes.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		04-26	07-03	01-26
National P-Value:				
	UQ04	51.[illegible]4	63.55	70.67

Timing: (in seconds)				
UQ04	Exercise total:	48	56	*

*Time not limited by paced tape.

EXERCISE: UQ04

This unreleased exercise dealt with METHODS OF REPRESENTING DATA at the level of Objective III.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13	TEXT: No Response.																			
DELTA-P	3.8	-1.6	5.2	-1.7	-2.0	1.1*	-1.1*	3.8	-1.1*	4.6	-1.9	-0.5	-0.8	12.8	-1.0	-2.1	-0.9	-3.1*	2.7	-3.2*
STD ERR OF DP		1.4	3.9	1.4	1.4	0.4	0.5	1.9	0.5	2.6	1.5	0.6	1.1	9.9	1.6	1.4	1.6	1.4	3.6	1.4
STD ERR OF P	1.3	0.7	5.1	0.8	0.5	1.7	1.0	2.5	0.9	3.5	0.9	1.5	1.4	11.0	1.1	0.4	1.2	0.5	4.3	0.4
AGE: 17																				
DELTA-P	0.9	0.4	-0.3	0.1	-0.2	0.2	-0.1	3.0*	-0.5*	0.3	0.4	-0.5*	-0.2	2.8*	-0.4	-0.5*	0.1	0.9	-0.4	-0.7*
STD ERR OF DP		0.3	0.4	0.4	0.3	0.2	0.2	0.8	0.2	0.5	0.5	0.2	0.2	1.2	0.4	0.2	0.4	0.9	0.5	0.3
STD ERR OF P	0.2	0.3	0.4	0.5	0.4	0.3	0.2	0.9	0.2	0.5	0.6	0.2	0.3	1.3	0.4	0.1	0.4	1.0	0.6	0.3
AGE: Ad																				
DELTA-P	0.3	0.1	-0.2	0.1	-0.1	0.0	-0.0	0.6	-0.1	0.0	0.3	-0.1	-0.3*	0.2	0.1	0.2	-0.1	-0.3*	-0.3*	-0.3*
STD ERR OF DP		0.3	0.2	0.3	0.2	0.2	0.1	0.6	0.1	0.2	0.5	0.2	0.1	0.5	0.4	0.2	0.2	0.1	0.1	0.1
STD ERR OF P	0.1	0.3	0.2	0.4	0.2	0.2	0.2	0.7	0.2	0.2	0.6	0.2	0.0	0.5	0.4	0.3	0.2	0.0	0.0	0.0
RESPONSE: 01* AGE: 13	TEXT: All Acceptable Responses.																			
DELTA-P	51.1	-11.5*	-1.8	5.8*	5.1*	4.0*	-4.2*	-27.4*	5.4*	-14.7*	-11.7*	-1.8	14.6*	-21.4*	-6.3	3.8	-3.8	-0.8	2.3	21.5*
STD ERR OF DP		2.0	[illegible]	2.3	2.5	1.2	[illegible]	2.9	0.8	4.8	3.3	2.0	1.9	4.8	3.5	2.2	3.0	4.1	3.3	4.1
P-VALUE	51.1	39.6	49.1	56.9	56.2	55.1	[illegible]	23.8	56.5	36.4	39.4	49.3	65.7	29.8	44.9	54.9	47.4	50.4	53.4	72.6
STD ERR OF P	1.5	1.8	2.6	2.7	2.8	1.8	2.0	2.8	1.5	4.8	3.4	2.6	2.1	5.1	3.7	2.7	3.1	4.4	3.5	4.0
AGE: 17																				
DELTA-P	63.6	-4.4	-0.0	-0.3	3.8	5.6*	-4.9*	-32.4*	6.1*	-14.2*	-18.6*	-3.0	10.4*	-21.0*	-9.4	4.2*	0.5	-4.4	-0.0	16.8*
STD ERR OF DP		3.1	2.6	2.4	2.2	1.2	1.0	2.4	1.0	4.1	2.8	2.0	1.3	3.9	5.1	1.6	3.7	4.6	3.2	2.9
P-VALUE	63.6	59.2	63.5	63.2	67.4	69.2	58.7	31.1	69.7	49.3	45.0	60.5	73.9	42.6	54.2	67.8	64.0	59.1	63.5	80.3
STD ERR OF P	1.5	3.6	3.1	2.8	2.5	2.0	1.8	2.5	1.4	4.4	3.0	2.6	1.4	3.7	5.6	1.8	4.2	4.4	3.4	2.9
AGE: Ad																				
DELTA-P	70.7	-7.1*	5.4*	3.1	-3.3	9.4*	-8.8*	-38.3*	5.4*	-11.8*	-5.4	3.0	16.8*	-21.6*	-1.9	3.4*	-2.0	-1.6	2.4	7.2*
STD ERR OF DP		3.1	2.3	2.6	2.1	1.1	1.1	3.3	0.7	2.4	2.9	1.6	1.9	4.5	5.2	1.6	4.3	4.5	3.4	2.4
P-VALUE	70.7	63.6	76.1	73.8	67.4	80.1	61.9	32.4	76.1	58.9	65.3	73.7	87.5	49.1	68.8	74.1	68.7	69.0	73.1	77.9
STD ERR OF P	1.4	3.5	2.6	3.3	2.1	1.8	1.8	3.6	1.3	3.3	3.3	1.8	1.9	4.5	5.6	1.9	4.4	4.9	4.2	2.3
RESPONSE: 03 AGE: 13	TEXT: I Don't Know.																			
DELTA-P	10.5	2.2	-0.5	0.8	-2.2	-2.3*	2.5*	7.1*	-1.3*	-0.8	1.4	-0.7	-3.8*	4.7	-0.3	-0.8	0.8	2.7	-2.3	-2.3
STD ERR OF DP		1.7	1.5	1.7	1.2	0.7	0.7	2.2	0.4	2.0	2.2	1.2	0.9	3.1	1.7	1.3	1.4	2.7	1.8	2.2
STD ERR OF P	0.9	1.8	1.7	2.1	1.3	0.9	1.3	2.5	0.8	2.2	2.2	1.6	1.0	3.3	1.9	1.6	1.4	3.1	1.9	2.3
AGE: 17																				
DELTA-P	6.0	0.6	-0.3	-1.4	1.3	0.5	-0.4	7.1*	-1.1*	1.5	3.6	0.2	-2.7*	6.7*	-3.0*	0.5	-1.0	-1.0	-1.0	-0.4
STD ERR OF DP		1.1	1.0	1.1	1.3	0.5	0.4	1.7	0.3	1.5	1.9	0.9	0.7	2.8	1.2	0.9	1.0	1.7	1.6	1.2
STD ERR OF P	0.6	1.2	1.0	1.2	1.6	0.8	0.8	1.9	0.7	1.6	2.1	1.2	0.7	3.1	1.1	1.1	1.1	1.6	1.9	1.2
AGE: Ad																				
DELTA-P	8.4	2.8	-2.4	-0.7	0.3	-4.2*	3.9*	17.3*	-2.5*	5.3*	3.8	-3.8*	-6.2*	8.9*	-1.9	0.6	-0.6	1.5	-0.9	-6.8*
STD ERR OF DP		1.9	1.2	1.7	1.4	0.6	0.6	3.1	0.5	1.7	2.1	1.1	0.8	2.9	1.3	1.2	2.2	2.6	3.5	1.4
STD ERR OF P	0.9	2.2	1.2	2.3	1.5	0.8	1.3	3.4	0.9	2.2	2.5	0.9	0.7	3.2	1.1	1.6	2.3	2.5	3.9	1.1

Report #: UQ05

NAEP #: J30031-234

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: IV. Solving Mathematical Problems--Social, Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		13	17	Adult
Package-Exercise:		01-19	08-08	07-19
National P-value:				
	UQ05	32.86	53.46	49.03
Timing: (in seconds)				
UQ05	Exercise total:	50	48	*

*Time not limited by paced tape.

EXERCISE: UQ05

This unreleased exercise dealt with METHODS OF REPRESENTING DATA at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: 13 TEXT: No Response.																				
DELTA-P	2.1	-0.5	0.6	-0.2	0.1	0.6	-0.6	5.4*	-1.2#	3.4	0.3	-0.8	-1.4#	10.4	0.8	-1.1*	-0.4	0.4	-0.9	-1.2
STD ERR OF DP		0.7	1.2	0.6	0.6	0.3	0.3	2.3	0.4	1.8	1.1	0.4	0.3	5.3	1.2	0.5	1.0	0.9	0.8	0.6
STD ERR OF P	0.4	0.7	1.5	0.6	0.5	0.5	0.6	2.7	0.3	1.8	1.3	0.5	0.3	5.6	1.3	0.5	1.0	0.8	0.7	0.5
AGE: 17																				
DELTA-P	0.8	0.5	-0.1	-0.6*	0.3	0.3	-0.3	0.5	-0.2	0.5	-0.6*	-0.0	-0.3	0.6	-0.4	-0.5*	-0.6*	0.1	2.4	-0.3
STD ERR OF DP		0.7	0.4	0.3	0.4	0.2	0.2	0.6	0.1	0.9	0.3	0.2	0.2	0.8	0.4	0.3	0.3	0.7	1.5	0.4
STD ERR OF P	0.2	0.8	0.4	0.2	0.5	0.4	0.2	0.7	0.3	0.9	0.2	0.4	0.3	0.9	0.4	0.2	0.2	0.7	1.7	0.4
AGE: Ad																				
DELTA-P	0.2	0.1	-0.1	-0.2	0.3	0.2	-0.1	0.6	-0.1	-0.2	0.5	-0.2	-0.2	-0.2	0.5	0.2	-0.2	-0.2	-0.2	-0.2
STD ERR OF DP		0.2	0.2	0.1	0.4	0.1	0.1	0.5	0.1	0.1	0.6	0.1	0.1	0.1	0.6	0.2	0.1	0.1	0.1	0.1
STD ERR OF P	0.1	0.2	0.1	0.0	0.5	0.3	0.1	0.6	0.1	0.0	0.7	0.0	0.0	0.0	0.6	0.3	0.0	0.0	0.0	0.0
RESPONSE: 10* AGE: 13 TEXT: All Acceptable Responses.																				
DELTA-P	32.9	-6.0#	0.4	2.4	1.8	0.5	-0.6	-21.8#	5.1#	-14.3#	-6.2	-2.9	[illegible]	-12.2#	5.8	-0.9	-2.2	-5.1	1.8	8.9#
STD ERR OF DP		2.2	2.4	2.3	2.1	1.2	1.2	2.1	0.8	4.1	3.4	1.9	1.2	4.0	7.0	2.0	2.6	4.1	3.2	2.9
P-VALUE	32.9	26.8	33.3	35.2	34.7	33.4	32.3	11.1	38.0	18.6	26.7	30.0	42.9	20.7	38.7	32.0	30.7	27.8	34.7	41.8
STD ERR OF P	1.4	2.3	2.7	3.0	2.3	1.5	2.1	1.5	1.6	4.6	3.3	2.1	1.9	4.2	7.7	2.0	2.6	4.5	3.3	2.9
AGE: 17																				
DELTA-P	53.5	-7.6*	1.7	2.3	2.4	0.8	-0.7	-23.2#	5.1#	-17.1#	-13.4#	0.8	9.1#	-15.5#	-1.3	-1.2	4.1	-3.9	0.1	13.6#
STD ERR OF DP		3.1	2.2	2.4	2.4	1.3	1.2	3.1	0.8	4.0	2.8	1.6	1.3	5.8	3.6	2.0	4.3	3.3	4.9	2.3
P-VALUE	53.5	45.9	55.2	55.8	55.9	54.2	52.8	30.3	58.5	36.4	40.1	54.3	62.6	37.9	52.2	52.3	57.5	49.6	53.6	67.1
STD ERR OF P	1.5	3.6	2.3	2.9	2.7	2.0	1.8	3.1	1.7	4.3	3.2	2.3	1.5	6.1	3.7	2.5	4.8	3.2	5.3	2.2
AGE: Ad																				
DELTA-P	49.0	-3.2	4.8	-1.5	-0.7	3.5*	-3.2*	-25.1#	3.5#	-9.4#	0.6	3.0	5.8*	-13.2#	-5.8	-2.0	4.5	-0.9	7.8	8.2*
STD ERR OF DP		3.1	2.8	2.9	3.7	1.5	1.4	3.8	0.6	1.9	3.0	2.1	2.8	4.4	4.0	2.1	3.8	4.5	4.0	3.8
P-VALUE	49.0	45.8	53.9	47.5	48.3	52.5	45.8	24.0	52.6	39.7	49.6	52.0	54.9	35.8	43.2	47.1	53.6	48.1	56.9	57.3
STD ERR OF P	1.8	3.3	3.1	3.3	4.5	2.3	2.3	3.6	2.0	2.5	3.8	2.5	3.5	4.2	3.8	2.9	3.9	4.9	4.5	4.4
RESPONSE: 39 AGE: 13 TEXT: I Don't Know.																				
DELTA-P	4.6	2.5*	0.7	-1.5*	-0.9	-0.1	0.1	3.0*	-1.2#	4.8	[illegible]	0.5	-3.0#	3.8	1.0	0.4	0.2	-0.4	-0.6	-2.3#
STD ERR OF DP		1.2	1.2	0.7	0.8	0.5	0.5	1.3	0.4	2.9	[illegible]	0.8	0.6	2.2	2.7	0.8	1.7	1.1	1.2	0.9
STD ERR OF P	0.5	1.4	1.5	0.7	0.8	0.7	0.8	1.3	0.5	3.1	[illegible]	1.0	0.4	2.2	3.0	0.9	1.8	1.1	1.2	0.8
AGE: 17																				
DELTA-P	2.2	-0.1	-0.1	0.3	-0.2	0.9#	-0.8#	2.2	-0.4*	4.0#	2.5	-0.3	-1.6#	4.1*	-0.8	0.2	-1.6#	0.7	-0.1	-1.6*
STD ERR OF DP		0.6	0.5	0.7	0.9	0.4	0.3	1.3	0.2	1.2	1.5	0.5	0.3	1.9	0.6	0.6	0.5	1.3	0.9	0.6
STD ERR OF P	0.4	0.6	0.5	0.8	1.1	0.7	0.3	1.5	0.4	1.2	1.7	0.6	0.3	2.0	0.6	0.8	0.4	1.4	0.9	0.6
AGE: Ad																				
DELTA-P	3.8	1.6	-1.9*	-1.8#	2.7*	0.4	-0.4	9.1#	-1.4#	5.1#	0.3	-2.4#	-2.9#	6.9#	-1.4	0.5	0.1	-1.6	-1.8	-2.8#
STD ERR OF DP		1.3	0.8	0.7	1.2	0.5	0.5	2.1	0.3	1.1	1.0	0.6	0.6	2.7	1.4	0.8	2.0	1.5	1.0	0.7
STD ERR OF P	0.6	1.5	0.8	0.5	1.6	0.9	0.7	2.4	0.5	1.6	1.2	0.5	0.4	2.9	1.4	1.0	2.1	1.5	0.9	0.6

Report #: U006

NAEP #: J30043-4

Content Area: Q. METHODS OF REPRESENTING DATA

Objective: IV. Solving Mathematical Problems--Social,
Technical, and Academic.

Exercise Type: Short answer using graph, table or drawing
Scoring Type: Semi-professional
Administration Mode: Group

Age:		Adult
Package-Exercise:		06-19
National P-value:		
	U006	71.14

Timing: (in seconds)
U006 Exercise total: *

*Time not limited by paced tape.

EXERCISE: UQ06

This unreleased exercise dealt with METHODS OF REPRESENTING DATA at the level of Objective IV.

	NATION	REGION				SEX		RACE		PARENTAL EDUCATION				SIZE-AND-TYPE OF COMMUNITY						
		SOUTH EAST	WEST	CENTRAL	NORTH EAST	MALE	FEMALE	BLACK	WHITE	NO HS	SOME HS	GRAD HS	POST HS	LOW METRO	EXTREME RURAL	SMALL PLACES	MEDIUM CITY	MAIN BIG CTY	URBAN FRINGE	HIGH METRO
RESPONSE: 00 AGE: A4 TEXT: No Response.																				
DELTA-P	0.0	-0.0	0.1	-0.0	-0.0	0.1	-0.0	0.4	-0.0	-0.0	-0.0	0.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	0.4	-0.0
STD ERR OF DP		0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
STD ERR OF P	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
RESPONSE: 01* AGE: A4 TEXT: All Acceptable Responses.																				
DELTA-P	71.1	-2.8	2.0	3.9	-4.0	-1.7	1.5	-25.5*	4.0*	-6.8*	-4.4	3.7*	8.1*	-14.6*	-1.5	0.1	2.0	-1.2	3.7	6.4*
STD ERR OF DP		2.6	2.4	2.5	2.6	1.3	1.2	4.3	0.7	2.2	3.3	1.6	1.9	4.7	3.6	1.8	3.6	7.1	3.6	2.9
P-VALUE	71.1	68.4	73.1	75.0	67.1	69.5	72.7	45.7	75.2	64.4	66.8	74.8	79.2	56.5	69.7	71.2	73.1	69.9	74.8	77.6
STD ERR OF P	1.5	2.9	2.6	3.2	3.1	2.2	1.7	4.8	1.4	2.8	3.9	1.7	2.1	4.9	3.9	2.3	3.7	7.7	3.7	3.0
RESPONSE: 39 AGE: A4 TEXT: I Don't Know.																				
DELTA-P	2.9	1.9	-1.4*	-0.5	0.4	0.3	-0.3	4.7*	-0.9*	2.7*	-0.8	-0.7	-2.0*	5.2*	1.6	-0.1	-0.5	-0.9	-1.8*	-1.8*
STD ERR OF DP		1.3	0.7	0.6	0.9	0.4	0.4	1.7	0.3	1.1	0.8	0.6	0.5	2.0	2.3	0.5	1.0	1.3	0.7	0.6
STD ERR OF P	0.5	1.6	0.7	0.6	1.0	0.4	0.5	1.9	0.4	1.5	0.8	0.6	0.4	2.2	2.5	0.6	1.0	1.4	0.7	0.6

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